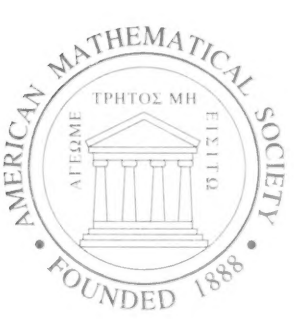

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Pavia ★ Epistemologia della matematica. Seminari 1992–1993. (Italian) [Epistemology of mathematics. 1992–1993 Seminars] **99a:00007**
Seminar:
Epistemology of Mathematics ★ Epistemologia della matematica. Seminari 1992–1993. (Italian) [Epistemology of mathematics. 1992–1993 Seminars] **99a:00007**
Siena ★ Epistemologia della matematica. Seminari 1992–1993. (Italian) [Epistemology of mathematics. 1992–1993 Seminars] **99a:00007**

00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86.}

(Abe, Takehisa) *see* **Gustafson, Karl, 99b:00008**
Anderssen, Robert S. The pragmatics of solving industrial (real-world) inverse problems with exemplification based on the molecular weight distribution problem. (English summary)
Antoine, Charles ★ Les moyennes. (French. French summary) [Means] **99m:00013**
Arecchi, F. T. Truth and certitude in the scientific language. (*see* **99k:92005**)
Atiyah, Michael F. Mathematics and the real world. (*see* **99i:00017**)
Bajaj, Chanderjit L. Implicit surface patches. (*see* **99i:00008**)
Ball, Philip ★ The self-made tapestry. (English summary) **99k:00015**
Beker, Henry J. Mathematics at work.
Blinn, Jim The algebraic properties of second-order surfaces. (*see* **99i:00008**)
Bloomenthal, Jules The geometry of implicit surfaces. (*see* **99i:00008**)
— Surface tiling. (*see* **99i:00008**)
— Convolution of skeletons. (*see* **99i:00008**)
— *see also* **Introduction to implicit surfaces, 99i:00008**
Borodich, F. M. Parametric homogeneity and non-classical self-similarity. I. Mathematical background. (English summary) **99h:00010**
— Parametric homogeneity and non-classical self-similarity. II. Some applications. (English summary) **99h:00011**
Bricmont, J. Science of chaos or chaos in science? (English summary) **99h:00012**
Cani-Gascuel, Marie-Paule Implicit surfaces in physically based animation. (*see* **99i:00008**)
Dawson, Robert J. MacG. (*with* Finbow, Wendy A.) What shape is a loaded die?
Doktorovich, A. B. Similarity and difference measures, supporting sets and the ternary "between" relation. (Russian) **99b:00007**
Finbow, Wendy A. *see* **Dawson, Robert J. MacG.**
Flake, Gary William ★ The computational beauty of nature. (English summary) **99g:00027**
Friedman, Avner ★ Mathematics in industrial problems. Part 10. (English summary) **99g:00028**
Gauß, Eugen Fractals and Fun—einige Programme für Varianten klassischer Fraktale. [Fractals and fun—some programs for variants of classical fractals] (*see* **99a:00018**)
Goedecker, Stefan ★ Wavelets and their application. (English summary) **99m:00014**
(Grebogi, Celso) *see* **Impact of chaos on science and society, 99d:00006**
Gustafson, Karl ★ Lectures on computational fluid dynamics, mathematical physics, and linear algebra. **99b:00008**
Haluška, Ján Uncertainty and tuning in music. (English summary) **99a:00009**
— Comma 32805/32768. (English summary) **99f:00008**
— On the numbers 256/243, 25/24, 16/15. (English summary) **99j:00004**
Hubbard, Barbara Burke ★ The world according to wavelets. (English summary) **99g:00029**
Ishida, Yoshiteru Formula processing on physical systems by symmetry. (English summary) **99j:00005**
Kawohl, Bernd Was ist eine runde Sache? [What constitutes rotundity?] **99i:00007**
— Symmetry or not? **99e:00010**
Kulisch, Ulrich Computer, Arithmetik und Numerik—ein Memorandum. [Computers, arithmetic and numerics—a memorandum] (*see* **99a:00018**)
(Kuwahara, Kunio) *see* **Gustafson, Karl, 99b:00008**
Leiber, Theodor Deterministic chaos and computational complexity: the case of methodological complexity reductions. (English summary) **99m:00015**
Lewis, Wanda Lightweight tension structures—an aesthetic integration of geometry and mechanics.
— Lightweight tension structures--an aesthetic integration of geometry and mechanics. II. Finding the form of a minimal surface. (English summary)
Lluis-Puebla, Emilio Mathematics in music? (Spanish) **99m:00016**
(Loi, Maurice) *see* **Mathematics and art, 99b:00009**
Matsuno, Koichiro Constructions from divisions of the category of time and their unification. (Japanese) (*see* **99b:00018**)
McCartin, Brian J. Prelude to musical geometry. **99k:00016**
Montiel, Mariana Algebra and music. (Spanish. Spanish summary) **99j:00006**
Morales M., Eduardo *see* **Morales-Manzanares, R., 99j:00007**
Morales-Manzanares, R. (*with* Morales M., Eduardo) SICIB, an interactive system of musical composition and improvisation for dancers. (Spanish. Spanish summary) **99j:00007**
Mukunda, N. Mathematics and the physicist's conception of nature. (English summary)
(Ojima, Izumi) *see* **Gustafson, Karl, 99b:00008**
(Ôtani, Mitsuharu) *see* **Gustafson, Karl, 99b:00008**
Perelló, Carlos The predictive role of mathematics in science. (Catalan)
Ratner, Mark Mathematics, computational chemistry, and battery building: some notions. (*see* **99k:00033**)
Rivaud, J. J. Maps. (Spanish)
Rockwood, Alyn Blending. (*see* **99i:00008**)
Ross, Patricia A. The limits of physicalism. (English summary)
Rota, Gian-Carlo Five dilemmas associated with the era of communication. (Italian)
Rüschendorf, Ludger Stochastik—eine interdisziplinäre Wissenschaft. [Stochastics—an interdisciplinary science] (*see* **99a:00018**)
Schellnhuber, H. J. Earth system analysis—the scope of the challenge. **99m:00017**
Schreiber, Peter Mathematik und Kunst. [Mathematics and art] (*see* **99a:00018**)
Słomczyński, Wojciech (*with* Zastawniak, Tomasz) How long was the coast of Atlantis?
Weiss, Rüdiger Mathematik und mathematische Werkzeuge, Wechselwirkungen—Fallstudien aus der Geschichte. [Mathematics and mathematical tools, interactions—case studies from history] (*see* **99a:00018**)
Wyvill, Brian Animation and special effects. (*see* **99i:00008**)
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(Yorke, James A.) *see* **Impact of chaos on science and society, 99d:00006**
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Zeitler, Herbert About a sculpture of St. George. (English summary) **99k:00017**

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Impact of chaos on science and society ★ The impact of chaos on science and society. **99d:00006**
Introduction to implicit surfaces ★ Introduction to implicit surfaces. **99i:00008**
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Tokyo ★ The impact of chaos on science and society. **99d:00006**

Items with secondary classifications in 00A69

Acheson, David ★ From calculus to chaos. (English summary) **99f:70001**
Andersson, Sten *see* **Jacob, Michael**, **99k:00005**
Axen, Ulrike (*with* Edelsbrunner, Herbert) Auditory Morse analysis of triangulated manifolds. (English summary) (*see* **99k:65005**)
Banks, Robert B. ★ Towing icebergs, falling dominoes, and other adventures in applied mathematics. (English summary) **99j:00002**
(Bastardas, Gemma) *see* **Brown, Ronald**
Bjørstad, Petter E. Mathematics, parallel computing and reservoir simulation. (English summary) **99e:00011**
Brown, Ronald Knots, mathematics and art. (Catalan)
(Cartwright, Nancy) *see* **Penrose, Roger**, **99e:81006**
Casti, John L. ★ Reality rules. I. (English summary) **99a:00010a**
— ★ Reality rules. II. (English summary) **99a:00010b**
Dale, Paul D. *see* **Vein, Robert**, **99m:15005**
Davis, Ernest Order of magnitude comparisons of distance. (English summary) **99m:68200**
Dawson, C. Bryan Using graphs to analyze sports drafts.
Devlin, Keith ★ The language of mathematics. (English summary) **99g:00010**
(Diacu, Florin) *see* **Parker, Matthew W.**
Edelsbrunner, Herbert *see* **Axen, Ulrike**, (**99k:65005**)
(Ernst, Catherine) *see* **Hölder, Otto**, **99i:00003**
Falconer, Kenneth J. ★ Techniques in fractal geometry. (English summary) **99f:28013**
Farouki, Rida T. (*with* Rampersad, Joanne) Cycles upon cycles: an anecdotal history of higher curves in science and engineering. (English summary) **99d:01003**
Forrester, P. J. *see* **Fulford, G. R.; et al.**, **99f:00009**
Friedman, Avner ★ Mathematics in industrial problems. Part 8. (English summary) **99c:00008a**
— ★ Mathematics in industrial problems. Part 9. (English summary) **99c:00008b**
Fulford, G. R. (*with* Forrester, P. J.; Jones, Arthur Raymond) ★ Modelling with differential and difference equations. (English summary) **99f:00009**
Gerdes, Paulus Molecular modeling of fullerenes with hexastrips.
Götze, Heinz ★ Castel del Monte. **99k:01009**
Guo, Aike *see* **Sun, Haijian; et al.**, **99d:58125**
(Hawking, Stephen W.) *see* **Penrose, Roger**, **99e:81006**
Hölder, Otto The axioms of quantity and the theory of measurement. **99i:00003**
(Holmes, Philip J.) *see* **Parker, Matthew W.**
Jacob, Michael (*with* Andersson, Sten) ★ The nature of mathematics and the mathematics of nature. **99k:00005**
Jones, Arthur Raymond *see* **Fulford, G. R.; et al.**, **99f:00009**
Kernévez, Jean-Pierre ★ The sentinel method and its application to environmental pollution problems. (English summary) **99c:92059**
Kirsch, Andreas ★ An introduction to the mathematical theory of inverse problems. (English summary) **99c:34023**
(Kobayashi, Mei) *see* **Wavelets and their applications**, **99h:00019**
Kochikov, Igor V. (*with* Kuramshina, Gulnara M.; Yagola, A. G.) Applied nonlinear ill-posed problems and the variational approach for constructing of regularizing algorithms. (*see* **99a:00030**)
Koperski, Jeffrey Models, confirmation, and chaos. (English summary) **99k:00018**
Kreuzer, Alexander (*with* Kreuzer, Margarete) Zur Geschichte des Fluchtpunktes, des Fernpunktes und der projektiven Geometrie. [On the history of the vanishing point, of the point at infinity and of projective geometry] (*see* **99d:00011**)
Kreuzer, Margarete *see* **Kreuzer, Alexander**, (**99d:00011**)
Kuramshina, Gulnara M. *see* **Kochikov, Igor V.; et al.**, (**99a:00030**)
Link, Godehard ★ Algebraic semantics in language and philosophy. (English summary) **99f:03034**
(Lions, Jacques-Louis) *see* **Kernévez, Jean-Pierre**, **99c:92059**
Liu, Lin[1] *see* **Sun, Haijian; et al.**, **99d:58125**
(Longair, Malcolm) *see* **Penrose, Roger**, **99e:81006**
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Mallat, Stéphane Applied mathematics meets signal processing. (*see* **99e:00023**)
Maor, Eli ★ Trigonometric delights. (English summary) **99c:01001**
Menezes, Alfred J. (*with* van Oorschot, Paul C.; Vanstone, Scott A.) ★ Handbook of applied cryptography. **99g:94015**
(Michell, Joel) *see* **Hölder, Otto**, **99i:00003**
Mogk, Georg Hybride Modellierung reaktiver Systeme unter Nutzung von funktionalem Vorwissen. [Hybrid modelling of reactive systems by using functional prior knowledge]
Morawetz, Cathleen Synge Mathematics to the rescue (retiring Presidential address). **99j:01018**
van Oorschot, Paul C. *see* **Menezes, Alfred J.; et al.**, **99g:94015**
Parker, Matthew W. Did Poincaré really discover chaos? Essay review of *Celestial encounters* [Princeton Univ. Press, Princeton, 1996; MR 98e:70006] by F. Diacu and P. Holmes.
Paulos, John Allen ★ Once upon a number. (English summary)
Paxson, Vern *see* **Willinger, Walter**
Penrose, Roger ★ The large, the small and the human mind. (English summary) **99e:81006**
Peterson, Ivars ★ The jungles of randomness. (English summary) **99b:00002**
(Pickover, Clifford A.) *see* **Chaos and fractals**, **99g:58086**
Pogoda, Zdzisław (*with* Sokołowski, Leszek M.) Does mathematics distinguish certain dimensions of spaces? **99a:00001**
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Ramanathan, Jayakumar ★ Methods of applied Fourier analysis. (English summary) **99h:42001**
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(Rivest, Ronald L.) *see* **Menezes, Alfred J.; et al.**, **99g:94015**
Rosen, Joe ★ Symmetry discovered. (English summary) **99e:20001**
Sangalli, Arturo ★ The importance of being fuzzy. (English summary) **99g:68163**
(Schäfer, Mary) *see* **Götze, Heinz**, **99k:01009**
Schroeder, M. R. ★ Number theory in science and communication. **99c:11165**
Senechal, Marjorie Parallel worlds: Escher and mathematics, revisited.
(Shenitzer, Abe) *see* **Pogoda, Zdzisław**, **99a:00001**
(Shimony, Abner) *see* **Penrose, Roger**, **99e:81006**
(Sitaramayya, M.) *see* **New directions in applied mathematics**, **99g:00043**
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Stakgold, Ivar ★ Green's functions and boundary value problems. (English summary) **99a:35002**
Stamer, Meike Penrose-Parkette—ein faszinierendes Puzzlespiel. [Penrose tilings—a fascinating puzzle] (*see* **99d:00011**)
Stewart, Ian N. ★ The magical maze. (English summary) **99a:00003**
Sun, Haijian (*with* Liu, Lin[1]; Guo, Aike) Iteration logistic map dynamics in the polar coordinates. (English summary) **99d:58125**
Thom, Réné The role of qualitative dynamics in applied sciences. (*see* **84m:58003**)
(Umamaheswaram, S.) *see* **New directions in applied mathematics**, **99g:00043**
Vanstone, Scott A. *see* **Menezes, Alfred J.; et al.**, **99g:94015**
Vein, Robert (*with* Dale, Paul D.) ★ Determinants and their applications in mathematical physics. (English summary) **99m:15005**
Willinger, Walter (*with* Paxson, Vern) Where mathematics meets the internet.
Yagola, A. G. *see* **Kochikov, Igor V.; et al.**, (**99a:00030**)

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00A71 Theory of mathematical modeling

Arnol'd, Vladimir Igorevich "Hard" and "soft" mathematical models. (Catalan. Catalan summary) **99m:00018**
— "Hard" and "soft" mathematical models. (Russian. Russian summary) **99d:00007**
Casti, John L. ★ Reality rules. I. (English summary) **99a:00010a**
— ★ Reality rules. II. (English summary) **99a:00010b**
Coutis, Peter Modelling the projectile motion of a cricket ball. (English summary) **99i:00009**
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Friedman, Avner ★ Mathematics in industrial problems. Part 8. (English summary) **99c:00008a**
— ★ Mathematics in industrial problems. Part 9. (English summary) **99c:00008b**
Fulford, G. R. (*with* Forrester, P. J.; Jones, Arthur Raymond) ★ Modelling with differential and difference equations. (English summary) **99f:00009**
Gerdes, Paulus Molecular modeling of fullerenes with hexastrips.
Gershenfeld, Neil ★ The nature of mathematical modeling. (English summary) **99i:00010**
Geymonat, Giuseppe (*with* Lions, Jacques-Louis) The role of mathematical and numerical tools in modelling. (Italian)
Jones, Arthur Raymond *see* **Fulford, G. R.; et al.**, **99f:00009**
Koperski, Jeffrey Models, confirmation, and chaos. (English summary) **99k:00018**
Lions, Jacques-Louis *see* **Geymonat, Giuseppe**
Malinetskiĭ, G. G. (*with* Potapov, A. B.) Nonlinearity. New problems, new opportunities. **99d:00008**
Meerschaert, Mark M. ★ Mathematical modeling. (English summary) **99k:00019**
Potapov, A. B. *see* **Malinetskiĭ, G. G.**, **99d:00008**
(Ramirez, Rafael) *see* **Arnol'd, Vladimir Igorevich**, **99m:00018**
(Roselló, Llorenç) *see* **Arnol'd, Vladimir Igorevich**, **99m:00018**
(Sadovskaia, Natalia) *see* **Arnol'd, Vladimir Igorevich**, **99m:00018**
Wang, Jiang Shu Design principles of diffuse stove-processed silk. (Chinese. English and Chinese summaries)

Items with secondary classifications in 00A71

Banks, Robert B. ★ Towing icebergs, falling dominoes, and other adventures in applied mathematics. (English summary) **99j:00002**
Bell, Stoughton *see* **Rosenblatt, Judah**
Bertozzi, Andrea L. The mathematics of moving contact lines in thin liquid films. **99h:76032**
Chow, Timothy Y. The surprise examination or unexpected hanging paradox. **99g:00013**
(Cini, Marcello) *see* **Russo, Lucio**, **99g:01005**
Friedman, Avner ★ Mathematics in industrial problems. Part 10. (English summary) **99g:00028**
Hadlock, Charles R. ★ Mathematical modeling in the environment. (English summary) **99m:86003**
von Hertzen, Raimo (*with* Holmlund, Ulf; Ranta, Matti A.) Theory of optimal competitive running. (Finnish. English and Finnish summaries)
Holmlund, Ulf *see* **von Hertzen, Raimo; et al.**
Mogk, Georg Hybride Modellierung reaktiver Systeme unter Nutzung von funktionalem Vorwissen. [Hybrid modelling of reactive systems by using functional prior knowledge]
Ranta, Matti A. *see* **von Hertzen, Raimo; et al.**

Rosenblatt, Judah (*with* Bell, Stoughton) ★ Mathematical analysis for modeling. (English summary)
Russo, Lucio ★ La rivoluzione dimenticata. (Italian) [The forgotten revolution] **99g:01005**
(Troch, Inge) *see* **Symposium: Mathematical Modelling, 99d:00030**

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Symposium:
Mathematical Modelling ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**
Vienna ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**

00A72 General methods of simulation

Bjørstad, Petter E. Mathematics, parallel computing and reservoir simulation. (English summary) **99e:00011**

Items with secondary classifications in 00A72

Bell, Stoughton *see* **Rosenblatt, Judah**
Flake, Gary William ★ The computational beauty of nature. (English summary) **99g:00027**
Meerschaert, Mark M. ★ Mathematical modeling. (English summary) **99k:00019**
Rosenblatt, Judah (*with* Bell, Stoughton) ★ Mathematical analysis for modeling. (English summary)
(Troch, Inge) *see* **Symposium: Mathematical Modelling, 99d:00030**

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Symposium:
Mathematical Modelling ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**
Vienna ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**

00A73 Dimensional analysis

Items with secondary classifications in 00A73

(Bridgman, Percy Williams) *see* **Takuji, Okamoto, 99k:01040**
Ishida, Yoshiteru Formula processing on physical systems by symmetry. (English summary) **99j:00005**
Takuji, Okamoto Demystifying dimensional analysis: the beginning of Bridgman's scrutiny of theoretical physics. **99k:01040**

00A79 Physics (use more specific entries from Sections 70 through 86 when possible)

Akhiezer, A. I. The unity of physical theory and its mathematical formalism. (Russian. English and Ukrainian summaries)
Bendaniel, D. J. The unreasonable effectiveness of mathematics in physics. (English summary) (*see* **99j:81005**)
Cartwright, Nancy How theories relate: takeovers or partnerships? (*see* **99g:00024**)
— *see also* **Stöckler, Manfred, (99g:00024)**
Ginzburg, V. L. ★ О науке, о себе и о других. (Russian. Russian summary) [About science, myself and others] **99h:00013**
Hao, Bai-Lin Chaos and physics. (*see* **99d:00006**)
Hattiangadi, Jagdish On interacting systems of space: or, co-efficient fields. (*see* **99j:81005**)
Kähler, Erich Raum-Zeit-Individuum. [Space-time individuum] (*see* **99f:01003**)
Kowada, Masashi The problem of measurement. I. (Japanese. English summary)
Morrison, Margaret C. Modelling nature: between physics and the physical world. (*see* **99g:00024**)
— *see also* **Muschik, Wolfgang, (99g:00024)**
Muschik, Wolfgang Experiments, models, and theories. Comment on Margaret C. Morrison: "Modelling nature: between physics and the physical world" [Philos. Natur. **35** (1998), no. 1, 65–85]. (*see* **99g:00024**)
Stöckler, Manfred On the unity of physics in a dappled world. Comment on Nancy Cartwright: "How theories relate: takeovers or partnerships?" [Philos. Natur. **35** (1998), no. 1, 23–34]. (*see* **99g:00024**)
Tzanakis, Constantinos Unfolding interrelations between mathematics and physics, in a presentation motivated by history: two examples. (English summary)
Verma, A. R. Friendship between mathematics and physics. (English summary)
Weinert, Friedel Fundamental physical constants, null experiments and the Duhem-Quine thesis. **99i:00011**
— Theories, models and constraints. (English summary)

Items with secondary classifications in 00A79

(Adler, Friedrich) *see* **Duhem, Pierre, 99g:01043**
(Agazzi, Evandro) *see* **Realism and quantum physics, 99k:81012**
Álvarez, Enrique Mathematics and physics: intersections and separations. (Spanish)
Baltas, Aristides Constraints and resistance: stating a case for negative realism. (*see* **99k:81012**)
Bitbol, Michel Some steps towards a transcendental deduction of quantum mechanics. **99i:81008**
Bozin, Dragana Alternative combining operations in extensive measurement. (English summary) **99i:00006**
Bressan, Aldo Some answers to Max Urchs' comments on a paper by Bressan: "Again on relativistic semantics" [Logic Log. Philos. No. 3 (1995), 23–42; MR 97h:03012].
Breuer, Thomas Othmar ★ Quantenmechanik: ein Fall für Gödel? (German. German summary) [Quantum mechanics: a case for Gödel?] **99m:00006**
Bub, Jeffrey ★ Interpreting the quantum world. (English summary) **99f:81006**
Budden, Tim A star in the Minkowskian sky: anisotropic special relativity. **99b:83007**
(Cartwright, Nancy) *see* **Penrose, Roger, 99e:81006**
Duhem, Pierre ★ Ziel und Struktur der physikalischen Theorien. (German. German summary) [Goal and structure of physical theories] **99g:01043**
Epple, Moritz Topology, matter, and space. I. Topological notions in 19th-century natural philosophy. **99c:01012**
Esfeld, Michael Der Holismus der Quantenphysik: seine Bedeutung und seine Grenzen. (English summary) [Holism in quantum physics: its significance and its limits]
Faddeev, Lyudvig Dmitrievich A mathematician's view of the development of physics. **99m:81009**
Feigenbaum, Mitchell J. The impact of chaos on physics. (*see* **99d:00006**)
French, Steven (*with* Ladyman, James) Superconductivity and structures: revisiting the London account. (English summary) **99d:82002**
(Galison, Peter) *see* **Cultures of theory, 99h:01002**
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Ishida, Yoshiteru Formula processing on physical systems by symmetry. (English summary) **99j:00005**
Klein, Étienne (*with* Lachièze-Rey, Marc) ★ The quest for unity. (English summary) **99k:81002**
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Manin, Yurīĭ Ivanovich Interrelations between mathematics and physics. (English and French summaries) **99j:01017**
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(Maxwell, James Clerk) *see* **Harman, P. M., 99g:01021**
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Hangzhou ★ Differential equations and applications. **99b:00013**
Hardwar ★ Pre-proceedings of the 64th Indian Mathematical Society Conference and Symposia on Traditions of Vedic Mathematics & Applications and Fixed Point Theory in Non-linear Analysis & Applications. **99k:00027**
Harmonic/analytic function spaces and linear operators ★ Chōwa kaiseki kansū kūkan to senkei sayōso. (Japanese) [Harmonic/analytic function spaces and linear operators] **99i:00018**
Heidelberg ★ Algorithmic algebra and number theory. **99h:00020**
Higher homotopy structures in topology and mathematical physics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Holomorphic spaces ★ Holomorphic spaces. **99a:00028**
Hong Kong ★ Theoretical aspects of neural computation. **99f:00027**
Hopf algebras and quantum groups ★ Hoppu daisū to ryōshi gun. (Japanese) [Hopf algebras and quantum groups] **99a:00029**
Hyderabad ★ Differential equations—theory, methods and applications. **99g:00038**
— ★ New directions in applied mathematics. **99g:00043**
Ilieni ★ Modern applied analysis.
Inverse problems, tomography, and image processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Irreversibility and cosmology ★ Irreversibility and cosmology. Fundamental aspects of quantum mechanics. **99k:00032**
Istanbul ★ Linear algebra and statistics. **99i:00019**
Jadwisin ★ Gauge theories of gravitation. **99k:00029**
Katinkulta ★ Topology and Teichmüller spaces. **99g:00051**
Kazimierz Dolny ★ Proceedings of Workshop on Fixed Point Theory. **99g:00048**
Klagenfurt ★ Contributions to general algebra. 10. **99f:00014**
Königstein ★ Algebra and combinatorics: interactions and applications. **99e:00015**
Kunming ★ Recent advances in differential equations. **99a:00045**
Kyoto ★ Topological field theory, primitive forms and related topics. **99e:00029**
Lecture Notes in Physics ★ Chaos, kinetics and nonlinear dynamics in fluids and plasmas. **99d:00014**
— ★ A perspective look at nonlinear media. **99d:00025**
Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA) ★ Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA). **99c:00014**
Lie computations ★ Lie computations. **99a:00031**
Lie theory and its applications in physics ★ Lie theory and its applications in physics. **99d:00022**
Liège ★ Logique dans l'enseignement des mathématiques. (French) [Logic in the teaching of mathematics] **99g:00042**
Linear algebra and statistics ★ Linear algebra and statistics. **99i:00019**
Linz ★ Non-standard applications of computer algebra. **99a:00035**
Liptovský Ján ★ Real functions. **99f:00022**
— ★ Quantum structures. II. **99g:00049**
Lisboa ★ International Conference on Differential Equations. **99d:00015**
Logic in the teaching of mathematics ★ Logique dans l'enseignement des mathématiques. (French) [Logic in the teaching of mathematics] **99g:00042**
Logique dans l'enseignement des mathématiques ★ Logique dans l'enseignement des mathématiques. (French) [Logic in the teaching of mathematics] **99g:00042**
London ★ New geometric techniques in computer vision. **99a:00034**
— ★ 16th British Combinatorial Conference. **99h:00023**
Los Alamos, NM ★ Nonlinear waves and solitons in physical systems. **99h:00031**
Madras ★ Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA). **99c:00014**
Maracaibo ★ IX Jornadas de la Asociación Matemática Venezolana. (Spanish) [IX Conference of the Venezuelan Mathematical Association] **99d:00017**
Marseille ★ Lie computations. **99a:00031**
Marseille-Luminy ★ Control and partial differential equations. **99g:00037**
Mathematical and numerical aspects of wave propagation ★ Mathematical and numerical aspects of wave propagation. **99d:00023**
Mathematical heritage of Sir William Rowan Hamilton ★ The mathematical heritage of Sir William Rowan Hamilton. **99e:00020**
Mathematics of nonlinear phenomena of wave motion and its applications ★ Hadō no hisenkei genshō no sūri to sono ōyō. (Japanese) [Mathematics of nonlinear phenomena of wave motion and its applications] **99a:00032**
Matrices and graphs ★ Matrices and graphs. **99h:00029**
Meeting:
Algebra ★ Algebra Meeting.
GAMM ★ GAMM 97. **99m:00025a**
— ★ GAMM 97. **99m:00025b**
— ★ GAMM 97. **99m:00025c**
International Quantum Structures Association ★ Quantum structures. II. **99g:00049**
New Geometric Techniques in Computer Vision ★ New geometric techniques in computer vision. **99a:00034**
Scientific Communications ★ Proceedings of the Scientific Communications Meeting of "Aurel Vlaicu" University. Vol. 14A. **99i:00027**
Scientific Communications, University of Arad ★ 25 years of high level technical education in Arad. Vol. I. **99i:00014**
Theoretical Physicists and Mathematicians ★ R.C.P. 25. Vol. 48. **99g:00050**
Melbourne ★ Computational techniques and applications: CTAC95. **99g:00035**
Memorial Volume:
Chandrasekhar, Subrahmanyan ★ Chandrasekhar memorial volume. **99h:00030**
Mississippi State, MS ★ Proceedings of the Third Mississippi State Conference on Difference Equations and Computational Simulations. **99h:00032**
Modelling and computation for applications in mathematics, science, and engineering ★ Modelling and computation for applications in mathematics, science, and engineering. **99k:00033**
Modern applied analysis ★ Modern applied analysis.

Mondello ★ Combinatorics '98. **99c:00012**
Monge Ampère equation: applications to geometry and optimization ★ Monge Ampère equation: applications to geometry and optimization. **99f:00018**
Monster and Lie algebras ★ The Monster and Lie algebras. **99e:00021**
Montreal, PQ ★ Representation theories and algebraic geometry. **99e:00028**
Montreal, QC ★ Semi-analytic methods for the Navier-Stokes equations. **99k:00037**
Nakhon Ratchasima ★ Proceedings of the Second Asian Mathematical Conference 1995. **99g:00046**
NATO Advanced Study Institute:
Representation Theories and Algebraic Geometry ★ Representation theories and algebraic geometry. **99e:00028**
New developments in convolution ★ Convolution no atarashii tenkai. [New developments in convolution] **99a:00033**
New directions in applied mathematics ★ New directions in applied mathematics. **99g:00043**
New geometric techniques in computer vision ★ New geometric techniques in computer vision. **99a:00034**
New trends in microlocal analysis ★ New trends in microlocal analysis. **99d:00024**
Newark, DE ★ Inverse problems, tomography, and image processing. **99a:00030**
— ★ Spectral and scattering theory. **99a:00048**
— ★ Partial differential and integral equations. **99k:00034**
Non-standard applications of computer algebra ★ Non-standard applications of computer algebra. **99a:00035**
Nonlinear mathematics and functional equations ★ Hisenkei no sūri to kansū hōteishiki. [Nonlinear mathematics and functional equations] **99f:00019**
Nonlinear waves and solitons in physical systems ★ Nonlinear waves and solitons in physical systems. **99h:00031**
Novosibirsk ★ Алгебра, геометрия, анализ и математическая физика. (Russian) [Algebra, geometry, analysis and mathematical physics] **99a:00019**
Orthogonal functions, moment theory, and continued fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Oxford ★ Approximations and numerical methods for the solution of Maxwell's equations. **99a:00020**
— ★ The geometric universe. **99b:00015**
Paris ★ Systèmes différentiels fractionnaires. [Fractional differential systems] **99h:00027**
Partial differential and integral equations ★ Partial differential and integral equations. **99k:00034**
Perspective look at nonlinear media ★ A perspective look at nonlinear media. **99d:00025**
Peyresq ★ Irreversibility and cosmology. Fundamental aspects of quantum mechanics. **99k:00032**
Plovdiv ★ Proceedings of the 5th International Colloquium on Differential Equations. Vol. 2. **99g:00044**
— ★ Proceedings of the Eighth International Colloquium on Differential Equations. **99d:00026**
Potential theory and related fields ★ Potensharu ron to sono kanren bunya. (Japanese) [Potential theory and related fields] **99a:00036**
Potsdam ★ Earth system analysis. **99f:00016**
Poughkeepsie, NY ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Poznan ★ Proceedings of the Eighth International Conference "Random Structures and Algorithms". **99g:00045**
Proceedings:
Algebra Conference ★ Proceedings of the 1st Panhellenic Algebra Conference. **99a:00037**
Catalan Days of Applied Mathematics ★ Proceedings of the IV Catalan Days of Applied Mathematics. **99a:00038**
Colloquium on Differential Equations ★ Proceedings of the 5th International Colloquium on Differential Equations. Vol. 2. **99g:00044**
— ★ Proceedings of the Eighth International Colloquium on Differential Equations. **99d:00026**
Conference of the International Linear Algebra Society ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Conference on Approximation and Optimization in the Caribbean ★ Proceedings of the 3rd International Conference on Approximation and Optimization in the Caribbean. **99e:00022**
Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00020**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00021**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00022**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00023**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00024**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00025**
Conference on Difference Equations and Computational Simulations ★ Proceedings of the Third Mississippi State Conference on Difference Equations and Computational Simulations. **99h:00032**
Conference on Functional Analysis and Approximation Theory ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Conference on Inverse Problems and Applications ★ Proceedings of the International Conference on Inverse Problems and Applications. **99i:00026**
Conference on Scientific Computing ★ Proceedings of the Algoritmy'97 Conference on Scientific Computing. **99f:00021**
Conference "Random Structures and Algorithms" ★ Proceedings of the Eighth International Conference "Random Structures and Algorithms". **99g:00045**
Congress of Mathematicians ★ Proceedings of the International Congress of Mathematicians. Vol. I. **99e:00023**
— ★ Proceedings of the International Congress of Mathematicians. Vol. II. **99e:00024**
— ★ Proceedings of the International Congress of Mathematicians. Vol. III. **99e:00025**
Congress on Mathematics ★ Actas del Cuarto Congreso de Matemática "Dr. Antonio A. R. Monteiro". [Proceedings of the Fourth "Dr. Antonio A. R. Monteiro" Congress on Mathematics] **99a:00040**
Mathematical Conference ★ Proceedings of the Second Asian Mathematical Conference 1995. **99g:00046**
Mathematics Conference ★ Proceedings of the 28th Annual Iranian Mathematics Conference. Part 1. **99a:00041**
School "Geometry and Physics" ★ Proceedings of the 17th Winter School "Geometry and Physics". **99g:00047**
Scientific Communications Meeting of "Aurel Vlaicu" University ★ Proceedings of the Scientific Communications Meeting of "Aurel Vlaicu" University. Vol. 14A. **99i:00027**
Seminar on Continuum Mechanics ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Seminar on Stability Problems for Stochastic Models ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part I. **99h:00033**
Summer Schools MATLAB 94, 95 ★ Summer Schools MATLAB 94, 95 Proceedings. **99a:00042**
Symposium on Applied Mathematics ★ Proceedings of the Symposium on Applied Mathematics. **99a:00043**
Symposium on Mathematical Physics with Special Sessions on Bose's Works ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part I. **99b:00016**
— ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part II. **99b:00017**
University on Mathematical Research and Teaching ★ Actes de l'Université d'Été 1996: Recherche Mathématique et Formation. (French) [Proceedings of the 1996 Summer University: Mathematical Research and Teaching] **99e:00026**
Workshop on Fixed Point Theory ★ Proceedings of Workshop on Fixed Point Theory. **99g:00048**
Progress in Mathematics ★ European Congress of Mathematics. Vol. I. **99e:00018**
— ★ European Congress of Mathematics. Vol. II. **99e:00019**
— ★ Topological field theory, primitive forms and related topics. **99e:00029**
Providence, RI ★ Current and future challenges in the applications of mathematics. **99i:00017**
Pseudorandom numbers and chaos ★ Giji ransū to kaosu. [Pseudorandom numbers and chaos] **99a:00044**
Puebla ★ Proceedings of the 3rd International Conference on Approximation and Optimization in the Caribbean. **99e:00022**
Quantum probability ★ Quantum probability. **99d:00029**
Quantum probability theory and entropy analysis ★ Ryōshi kakuritsu ron to entoropi kaiseki. (Japanese) [Quantum probability theory and entropy analysis] **99b:00018**
Quantum structures ★ Quantum structures. II. **99g:00049**
Quebec, PQ ★ Field theory, integrable systems and symmetries. **99a:00027**
Queretaro ★ XXVII Congreso Nacional de la Sociedad Matemática Mexicana. (Spanish) [XXVII National Congress of the Mexican Mathematical Society] **99f:00013**
Quezon City ★ Functional analysis and global analysis. **99g:00040**
— ★ Proceedings of the International Conference on Inverse Problems and Applications. **99i:00026**
R.C.P. 25 ★ R.C.P. 25. Vol. 48. **99g:00050**
Real functions ★ Real functions. **99f:00022**
Recent advances in differential equations ★ Recent advances in differential equations. **99a:00045**
Recent progress in algebra ★ Recent progress in algebra. **99e:00027**
Recent trends in infinite-dimensional noncommutative analysis ★ Mugen jigen hikakan kaisekigaku no dōkō. [Recent trends in infinite-dimensional noncommutative analysis] **99f:00023**
Regensburg ★ GAMM 97. **99m:00025a**
— ★ GAMM 97. **99m:00025b**
— ★ GAMM 97. **99m:00025c**
Representation theories and algebraic geometry ★ Representation theories and algebraic geometry. **99e:00028**
Research on algorithms for numerical computing ★ Sūchi keisan arugorizumo no kenkyū. (Japanese) [Research on algorithms for numerical computing] **99i:00028**
Research on applied functional analysis ★ Ōyō kansū kaiseki no kenkyū. (Japanese) [Research on applied functional analysis] **99i:00029**
Research on nonlinear analysis and convex analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **99f:00024**
Research on the theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **99h:00034**
Research on the theory of topological quantum fields induced by $6j$-symbols ★ $6j$-symbol kara michibi kareru isōteki ryōshi ba no riron no kenkyū. (Japanese) [Research on the theory of topological quantum fields induced by $6j$-symbols] **99k:00036**
Rio de Janeiro ★ Foundations of computational mathematics. **99g:00039**
— ★ Algebra Meeting.
Roanoke, VA ★ First Annual Conference for the History of Philosophy of Science. **99a:00023**
Sakado ★ Proceedings of the Symposium on Applied Mathematics. **99a:00043**
San Diego, CA ★ Applied nonlinear dynamics and stochastic systems near the millenium. **99h:00022**
San Luis Potosí ★ XXIX Congreso Nacional de la Sociedad Matemática Mexicana. (Spanish) [XXIX National Congress of the Mexican Mathematical Society] **99i:00016**
São Carlos ★ Workshop on Real and Complex Singularities. **99b:00023**

School:
Algebra, Geometry, Analysis and Mathematical Physics ★ Алгебра, геометрия, анализ и математическая физика. (Russian) [Algebra, geometry, analysis and mathematical physics] **99a:00019**
Applications of Mathematics in Engineering ★ Applications of mathematics in engineering. **99d:00013**
— ★ Applications of mathematics in engineering. **99m:00024**
Boundaries, Interfaces, and Transitions ★ Boundaries, interfaces, and transitions. **99a:00021**
Computational Physics ★ Computational physics. **99f:00012**
Functional Analysis ★ Functional analysis. V. Vol. I. **99h:00028**
Geometry and Physics ★ Proceedings of the 17th Winter School "Geometry and Physics". **99g:00047**
MATLAB 94, 95 ★ Summer Schools MATLAB 94, 95 Proceedings. **99a:00042**
Real Functions Theory ★ Real functions. **99f:00022**
Semi-analytic methods for the Navier-Stokes equations ★ Semi-analytic methods for the Navier-Stokes equations. **99k:00037**
Seminar:
Bourbaki ★ Séminaire Bourbaki. Vol. 1996/97. (French) [Bourbaki Seminar. Vol. 1996/97] **99a:00046**
— ★ Séminaire Bourbaki. Vol. 1997/98. (French) [Bourbaki Seminar. Vol. 1997/98] **99m:00026**
Continuum Mechanics ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Geometry ★ Seminari di Geometria. 1996–1997. [Geometry Seminars. 1996–1997] **99b:00019**
New Trends in Microlocal Analysis ★ New trends in microlocal analysis. **99d:00024**
Representation Theories and Algebraic Geometry ★ Representation theories and algebraic geometry. **99e:00028**
Stability Problems for Stochastic Models ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part I. **99h:00033**
Seoul ★ Recent progress in algebra. **99e:00027**
Session:
Inverse Problems ★ Inverse problems, tomography, and image processing. **99a:00030**
Spectral and Scattering Theory ★ Spectral and scattering theory. **99a:00048**
Tomography and Image Processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Works of Bose, Satyendra Nath ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part I. **99b:00016**
— ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part II. **99b:00017**
Shanghai ★ China-Japan Symposium on Reaction-Diffusion Equations and their Applications and Computational Aspects. **99f:00026**
Simplification of systems of algebraic and differential equations with applications ★ Simplification of systems of algebraic and differential equations with applications. **99a:00047**
Some tapas of computer algebra ★ Some tapas of computer algebra. **99k:00038**
Sozopol ★ Applications of mathematics in engineering. **99d:00013**
— ★ Applications of mathematics in engineering. **99m:00024**
Special Issue:
Linear algebra and statistics ★ Linear algebra and statistics. **99i:00019**
Spectral and scattering theory ★ Spectral and scattering theory. **99a:00048**
Spectral and scattering theory and related topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral and scattering theory and related topics] **99a:00049**
Spectral-scattering theory and related topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral-scattering theory and related topics] **99i:00030**
Srní ★ Proceedings of the 17th Winter School "Geometry and Physics". **99g:00047**
Stuttgart ★ Boundary element topics. **99e:00017**
Symplectic, contact and low-dimensional topology ★ Symplectic, contact and low-dimensional topology. **99b:00020**
Symposium:
Applied Mathematics ★ Proceedings of the Symposium on Applied Mathematics. **99a:00043**
Chandrasekhar, Subrahmanyan ★ Chandrasekhar memorial volume. **99h:00030**
Current and Future Challenges in the Applications of Mathematics ★ Current and future challenges in the applications of mathematics. **99i:00017**
Discrete Integrable Systems and Discrete Analysis ★ Risan kasekibun kei to risan kaiseki. (Japanese) [Discrete integrable systems and discrete analysis] **99c:00013**
Discretizations of Integrable Systems: Theory and Applications ★ Discretizations of integrable systems: theory and applications. (Japanese) **99a:00024**
Earth System Analysis ★ Earth system analysis. **99f:00016**
Exact WKB Analysis and Fourier Analysis in the Complex Domain ★ Kanzen WKB kaiseki to fukuso Fūrie kaiseki. [Exact WKB analysis and Fourier analysis in the complex domain] **99a:00026**
Fast Algorithms for Control, Signals and Image Processing ★ ILAS Symposium on Fast Algorithms for Control, Signals and Image Processing. **99f:00025**
Fixed Point Theory in Non-linear Analysis & Applications ★ Pre-proceedings of the 64th Indian Mathematical Society Conference and Symposia on Traditions of Vedic Mathematics & Applications and Fixed Point Theory in Non-linear Analysis & Applications. **99k:00027**
Geometric Issues in the Foundations of Science ★ The geometric universe. **99b:00015**
Geometric Methods in Asymptotic Analysis ★ Zenkin kaiseki ni okeru kikagakuteki hōhō. [Geometric methods in asymptotic analysis] **99d:00021**
Harmonic/Analytic Function Spaces and Linear Operators ★ Chōwa kaiseki kansū kūkan to senkei sayōso. (Japanese) [Harmonic/analytic function spaces and linear operators] **99i:00018**
Hopf Algebras and Quantum Groups ★ Hoppu daisū to ryōshi gun. (Japanese) [Hopf algebras and quantum groups] **99a:00029**
Mathematical Institute, Serbian Academy of Sciences and Arts ★ {50th anniversary of the Mathematical Institute, Serbian Academy of Sciences and Arts}. **99h:00021**

Symposium: (*cont'd.*)
Mathematical Modelling ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**
Mathematical Physics with Special Sessions on Bose's Works ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part I. **99b:00016**
— ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part II. **99b:00017**
Mathematics of Nonlinear Phenomena of Wave Motion and Its Applications ★ Hadō no hisenkei genshō no sūri to sono ōyō. (Japanese) [Mathematics of nonlinear phenomena of wave motion and its applications] **99a:00032**
New Developments in Convolution ★ Convolution no atarashii tenkai. [New developments in convolution] **99a:00033**
Nonlinear Analysis and Convex Analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **99f:00024**
Nonlinear Mathematics and Functional Equations ★ Hisenkei no sūri to kansū hōteishiki. [Nonlinear mathematics and functional equations] **99f:00019**
Potential Theory and Related Fields ★ Potensharu ron to sono kanren bunya. (Japanese) [Potential theory and related fields] **99a:00036**
Pseudorandom Numbers and Chaos ★ Giji ransū to kaosu. [Pseudorandom numbers and chaos] **99a:00044**
Quantum Probability Theory and Entropy Analysis ★ Ryōshi kakuritsu ron to entoropi kaiseki. (Japanese) [Quantum probability theory and entropy analysis] **99b:00018**
Reaction-Diffusion Equations and Their Applications and Computational Aspects ★ China-Japan Symposium on Reaction-Diffusion Equations and their Applications and Computational Aspects. **99f:00026**
Recent Trends in Infinite-dimensional Noncommutative Analysis ★ Mugen jigen hikakan kaisekigaku no dōkō. [Recent trends in infinite-dimensional noncommutative analysis] **99f:00023**
Research on Algorithms for Numerical Computing ★ Sūchi keisan arugorizumo no kenkyū. (Japanese) [Research on algorithms for numerical computing] **99i:00028**
Research on Applied Functional Analysis ★ Ōyō kansū kaiseki no kenkyū. (Japanese) [Research on applied functional analysis] **99i:00029**
Research on the Theory and Applications of Computer Algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **99h:00034**
Research on the Theory of Topological Quantum Fields Induced by $6j$-symbols ★ $6j$-symbol kara michibi kareru isōteki ryōshi ba no riron no kenkyū. (Japanese) [Research on the theory of topological quantum fields induced by $6j$-symbols] **99k:00036**
Spectral and Scattering Theory and Related Topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral and scattering theory and related topics] **99a:00049**
Spectral-scattering Theory and Related Topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral-scattering theory and related topics] **99i:00030**
Topological Field Theory, Primitive Forms and Related Topics ★ Topological field theory, primitive forms and related topics. **99e:00029**
— ★ Topological field theory, primitive forms and related topics. **99e:00029**
Topology and Teichmüller Spaces ★ Topology and Teichmüller spaces. **99g:00051**
Topology of Real Singularities and Related Topics ★ Jitsu tokuiten no toporojii to sono kanren wadai. [Topology of real singularities and related topics] **99a:00050**
Traditions of Vedic Mathematics & Applications ★ Pre-proceedings of the 64th Indian Mathematical Society Conference and Symposia on Traditions of Vedic Mathematics & Applications and Fixed Point Theory in Non-linear Analysis & Applications. **99k:00027**
Systèmes différentiels fractionnaires ★ Systèmes différentiels fractionnaires. [Fractional differential systems] **99h:00027**
Tabriz ★ Proceedings of the 28th Annual Iranian Mathematics Conference. Part 1. **99a:00041**
Taejon ★ Recent progress in algebra. **99e:00027**
Tarragona ★ Proceedings of the IV Catalan Days of Applied Mathematics. **99a:00038**
Tashkent ★ Algebra and operator theory. **99d:00012**
Tempe, AZ ★ Chandrasekhar memorial volume. **99h:00030**
Theoretical aspects of neural computation ★ Theoretical aspects of neural computation. **99f:00027**
Toeplitz matrices: structures, algorithms and applications ★ Toeplitz matrices: structures, algorithms and applications. **99b:00021**
Tokyo ★ New trends in microlocal analysis. **99d:00024**
Toledo ★ Wittgenstein y el Círculo de Viena. (German) [Wittgenstein and the Vienna Circle] **99b:00022**
Topological field theory, primitive forms and related topics ★ Topological field theory, primitive forms and related topics. **99e:00029**
Topology and Teichmüller spaces ★ Topology and Teichmüller spaces. **99g:00051**
Topology of real singularities and related topics ★ Jitsu tokuiten no toporojii to sono kanren wadai. [Topology of real singularities and related topics] **99a:00050**
Transform methods & special functions ★ Transform methods & special functions, Varna '96. **99i:00031**
Varna ★ Transform methods & special functions, Varna '96. **99i:00031**
Velké Karlovice ★ Summer Schools MATLAB 94, 95 Proceedings. **99a:00042**
Vic ★ XIV CEDYA/IV Congrés de Matemàtica Aplicada. (Spanish) [XIV CEDYA/IV Congress of Applied Mathematics] **99g:00036**
Vienna ★ 2nd IMACS Symposium on Mathematical Modelling. **99d:00030**
Vigo ★ XV Congreso de Ecuaciones Diferenciales y Aplicaciones/V Congreso de Matemática Aplicada. Vol. I, II. (Spanish) [XV Congress on Differential Equations and Applications/V Congress on Applied Mathematics. Vol. I, II] **99d:00018**
Villeurbanne ★ Discrete metric spaces. **99f:00015**
Wailea, HI ★ Non-standard applications of computer algebra. **99a:00035**
Winnipeg, MB ★ ILAS Symposium on Fast Algorithms for Control, Signals and Image Processing. **99f:00025**
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Connectivity Augmentation of Networks: Structures and Algorithms ★ Connectivity augmentation of networks: structures and algorithms.
Fixed Point Theory ★ Proceedings of Workshop on Fixed Point Theory. **99g:00048**
Fundamental Aspects of Quantum Mechanics ★ Irreversibility and cosmology. Fundamental aspects of quantum mechanics. **99k:00032**
Gauge Theories of Gravitation ★ Gauge theories of gravitation. **99k:00029**
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  Jurchescu, Martin ★ Collection of papers in memory of Martin Jurchescu.
  Krein, Mark Grigor'evich ★ {Dedicated to the memory of Mark Grigorievich Krein (1907–1989)}. **99a:00054**
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Lax, Peter D. ★ Differential equations: La Pietra 1996. **99g:35004**
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Liptser, Robert Sh. ★ Statistics and control of stochastic processes. **99e:60005**
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Wos, Lawrence Thomas ★ Automated reasoning and its applications. **99a:68152**
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Ramat-Gan ★ The heritage of Emmy Noether. **99g:01001**
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School:
Real Functions Theory ★ Real functions. **99f:00022**
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Statistics and Control of Stochastic Processes ★ Statistics and control of stochastic processes. **99e:60005**
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Special Issue:
Recent advances in structural modelling and optimization ★ Recent advances in structural modelling and optimization. **99k:73003**
Susarla, Vyaghreshwarudu ★ Special issue in memory of V. Susarla. **99i:62003**
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Causality and Locality in Modern Physics and Astronomy: Open Questions and Possible Solutions ★ Causality and locality in modern physics. **99j:81005**
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Learning, Control and Hybrid Systems ★ Learning, control and hybrid systems. **99g:93003**
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00B50 Volumes of selected translations

(Ovseevich, A. I.) *see* **Congress: Mathematicians, 99h:00039**
(Tikhomirov, Vladimir) *see* **Congress: Mathematicians, 99h:00039**

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Mathematicians ★ Международный Конгресс Математиков в Киото, 1990. (Russian) [International Congress of Mathematicians in Kyoto, 1990] **99h:00039**
Kyoto ★ Международный Конгресс Математиков в Киото, 1990. (Russian) [International Congress of Mathematicians in Kyoto, 1990] **99h:00039**
Sugaku Expositions ★ Sugaku Expositions. **99a:00057**
— ★ Sugaku Expositions. **99h:00040**

00B55 Miscellaneous volumes of translations

(Golubeva, V. A.) *see* **Analysis, 99f:00032**
(Il'ina, G. V.) *see* **Algebraic geometry, 99e:00032**
(Izmailova, Z. A.) *see* **Dynamical systems, 99h:00042**
(Izmailova, Z. I.) *see* **Functional analysis, 99g:00055**
(Krasnopolina, E. I.) *see* **Functional analysis, 99k:00042**
(Rozhkovskaya, Tamara) *see* **Some questions of mathematical physics and function theory, 99h:00043**
(Sakharova, V. P.) *see* **Complex analysis and representation theory, 99h:00041**
(Shipshina, A. G.) *see* **Computing mathematics and cybernetics, 99a:00058**
(Ural'tseva, N. N.) *see* **Some questions of mathematical physics and function theory, 99h:00043**

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Complex analysis and representation theory ★ Complex analysis and representation theory. 1. **99h:00041**
Computing mathematics and cybernetics ★ Computational mathematics and cybernetics. 2. **99a:00058**
Control and identification algorithms; Methods of mathematical modeling ★ Control and identification algorithms; Methods of mathematical modeling.
Dynamical systems ★ Dynamical systems. Vol. 12. **99e:00033**
— ★ Dynamical systems. 5. **99h:00042**
Functional analysis ★ Functional analysis. 1. **99g:00055**
— ★ Functional analysis. 2. **99k:00042**
Hajdúszoboszló ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part II. **99i:00036**
Methods of analysis of nonlinear systems ★ Methods of analysis of nonlinear systems. **99a:00059**
Methods of mathematical modeling ★ Control and identification algorithms; Methods of mathematical modeling.
— ★ Methods of mathematical modeling.
Moscow ★ Stability problems for stochastic models. Part 1. **99d:00033**
— ★ Stability problems for stochastic models. Part II. **99g:00056**
Problems of mathematical physics ★ Problems of mathematical physics. **99k:00043**
Proceedings:
Seminar on Stability Problems for Stochastic Models ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part II. **99i:00036**
Seminar:
Stability Problems for Stochastic Models ★ Stability problems for stochastic models. Part 1. **99d:00033**
— ★ Stability problems for stochastic models. Part II. **99g:00056**
— ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part II. **99i:00036**
Siberian Advances in Mathematics ★ Siberian Advances in Mathematics. **99b:00028**
Some questions of mathematical physics and function theory ★ Some questions of mathematical physics and function theory. **99h:00043**
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(Fedoryuk, M. V.) *see* **Partial differential equations, 99i:35002**
(Joel, J. S.) *see* **Partial differential equations, 99i:35002**
(Ostianu, N. M.) *see* **Geometry, 99a:53001**
(Sakharova, V. P.) *see* **Algebra, 99m:16001**
(Wolf, S. A.) *see* **Partial differential equations, 99i:35002**

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Geometry ★ Geometry. 3. **99a:53001**
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Partial differential equations ★ Partial differential equations. V. **99i:35002**
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Seminar:
Stability Problems for Stochastic Models ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part I. **99h:00033**
Statistical methods of estimation and testing of hypotheses ★ Statistical methods of estimation and testing of hypotheses. **99b:62004**

00B60 Collections of reprinted articles [see also 01A75]

Seminar:
Bourbaki ★ Séminaire Bourbaki. Vol. 1. (French) [Bourbaki Seminar. Vol. 1] **99f:00033**
— ★ Séminaire Bourbaki. Vol. 2. (French) [Bourbaki Seminar. Vol. 2] **99f:00034**
— ★ Séminaire Bourbaki. Vol. 3. (French) [Bourbaki Seminar. Vol. 3] **99f:00035**
— ★ Séminaire Bourbaki. Vol. 4. (French) [Bourbaki Seminar. Vol. 4] **99f:00036**
— ★ Séminaire Bourbaki. Vol. 5. (French) [Bourbaki Seminar. Vol. 5] **99f:00037**
— ★ Séminaire Bourbaki. Vol. 6. (French) [Bourbaki Seminar. Vol. 6] **99f:00038**
— ★ Séminaire Bourbaki. Vol. 7. (French) [Bourbaki Seminar. Vol. 7] **99f:00039**
— ★ Séminaire Bourbaki. Vol. 8. (French) [Bourbaki Seminar. Vol. 8] **99f:00040**
— ★ Séminaire Bourbaki. Vol. 9. (French) [Bourbaki Seminar. Vol. 9] **99f:00041**
— ★ Séminaire Bourbaki. Vol. 10. (French) [Bourbaki Seminar. Vol. 10] **99f:00042**

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Arnol'd, Vladimir Igorevich ★ Избранное-60. (Russian) [Selecta-60] **99j:01025**
(Atiyah, Michael F.) *see* **Lectures: Fields Medallists, 99b:00010**
(Carnap, Rudolf) *see* **Logical empiricism at its peak, 99a:00006a** *and* **Decline and obsolescence of logical empiricism, 99a:00006b**
(Eßler, Fabian H. L.) *see* **Exactly solvable models of strongly correlated electrons, 99a:82003**
Ginzburg, V. L. ★ О науке, о себе и о других. (Russian. Russian summary) [About science, myself and others] **99h:00013**
(Iagolnitzer, Daniel) *see* **Lectures: Fields Medallists, 99b:00010**
(Korepin, Vladimir E.) *see* **Exactly solvable models of strongly correlated electrons, 99a:82003**
(Neurath, Otto) *see* **Logical empiricism at its peak, 99a:00006a**
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(Schlick, Moritz) *see* **Logical empiricism at its peak**, **99a:00006a**

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Decline and obsolescence of logical empiricism ★ Decline and obsolescence of logical empiricism. **99a:00006b**
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Fields Medallists ★ Fields Medallists' lectures. **99b:00010**
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01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Bénézet, Jean-Pierre) *see* **Hauchecorne, Bertrand**, **99f:01001**
Hauchecorne, Bertrand (*with* Suratteau, Daniel) ★ Des mathématiciens de A à Z. (French) [Mathematicians from A to Z] **99f:01001**
(Minderovic, Zoran) *see* **Notable mathematicians**, **99f:01002**
Suratteau, Daniel *see* **Hauchecorne, Bertrand**, **99f:01001**
(Taussky-Todd, Olga) *see* **Publications about Olga Taussky Todd**, (**99c:01028**)
(Young, Robyn V.) *see* **Notable mathematicians**, **99f:01002**

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Items with secondary classifications in 01–00

Grinstein, Louise S. ★ Mathematical book review index. 1800–1940. **99f:00004**
(Johnson, Norman Lloyd[2]) *see* **Leading personalities in statistical sciences**, **99c:62002**
(Kotz, Samuel) *see* **Leading personalities in statistical sciences**, **99c:62002**

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Mathematical book reviews *see* **Grinstein, Louise S.**, **99f:00004**
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01–01 Instructional exposition (textbooks, tutorial papers, etc.)

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01–06 Proceedings, conferences, collections, etc.

(Aull, C. E.) *see* **Handbook: History of general topology**, **99a:01001**
(von Bach, Carl Julius) *see* **Carl Julius von Bach**, **99h:01001**
(Bottazzini, Umberto) *see* **Studies in the history of modern mathematics**, **99i:01002**
(Descartes, René) *see* **"For Descartes": Cartesian mathematics and physics**, **99h:01003**
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(Galison, Peter) *see* **Cultures of theory**, **99h:01002**
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(Atiyah, Michael F.) *see* **Lectures: Fields Medallists**, **99b:00010**
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03–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Grennan, Wayne ★ Informal logic. (English summary)
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Leitsch, Alexander ★ The resolution calculus. (English summary) **99b:03023**
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03–02 Research exposition (monographs, survey articles)

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— (*with* Reyle, U.) Labelled resolution for classical and nonclassical logics. (English summary) **99a:03012**
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— (*with* Fermüller, Christian G.; Salzer, Gernot; Zach, Richard) Labeled calculi and finite-valued logics. (English summary) **99m:03043**
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03Cxx Model theory

Peretyat′kin, Mikhail G. ★ Finitely axiomatizable theories. **99a:03035**
— ★ Конечно аксиоматизируемые теории. (Russian. Russian summary) [Finitely axiomatizable theories] **99m:03058**

Items with secondary classifications in 03Cxx

(Frege, Gottlob) *see* **Read, Stephen, 99a:03001**
(Gödel, Kurt Friedrich) *see* **Read, Stephen, 99a:03001**
Read, Stephen Completeness and categoricity: Frege, Gödel and model theory. (English summary) **99a:03001**

03C05 Equational classes, universal algebra [see also 08Axx]

Bloom, Stephen L. (*with* Ésik, Zoltán) Axiomatizing shuffle and concatenation in languages. (English summary) **99b:03045**
Ésik, Zoltán *see* **Bloom, Stephen L., 99b:03045**
Kisielewicz, Andrzej Austin identities. **99j:03026**
Kiss, Emil W. An introduction to tame congruence theory. (English summary) **99d:03028**
Valeriote, Matthew A. Decidable equational classes. (English summary) **99c:03045**
Willard, Ross Three lectures on the RS problem. (English summary) **99d:03029**

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Andréka, Hajnal (*with* Givant, Steven; Mikulás, Szabolcs; Németi, István; Simon, András) Notions of density that imply representability in algebraic logic. (English summary) **99f:03089**
Bailey, Colin (*with* Oliveira, Joseph) An axiomization for cubic algebras. (English summary) **99d:06008**
Bertol, Michael *see* **Ésik, Zoltán, 99d:68144**
Choffrut, Christian (*with* Horváth, Sándor) Equations in transfinite strings. (English summary) (*see* **99m:68010**)
Denecke, Klaus (*with* Koppitz, Jörg) M-solid monoids of hypersubstitutions of type $\tau = (2)$. (English summary) **99k:20107**
Ésik, Zoltán Axiomatizing the equational theory of regular tree languages (extended abstract). (English summary) (*see* **99f:68011**)
— (*with* Bertol, Michael) Nonfinite axiomatizability of the equational theory of shuffle. (English summary) **99d:68144**
Givant, Steven *see* **Andréka, Hajnal; et al., 99f:03089**
Hodkinson, Ian Atom structures of cylindric algebras and relation algebras. (English summary) **99c:03103**
Horváth, Sándor *see* **Choffrut, Christian,** (**99m:68010**)
Jeong, Joohee Decidability and finite direct products. (English summary) **99m:03016**
Kilgus, Bernhard *see* **Schweigert, Dietmar,** (**98g:00020**)
Koppitz, Jörg *see* **Denecke, Klaus, 99k:20107**
Limet, Sébastien (*with* Réty, Pierre) E-unification by means of tree tuple synchronized grammars. (English summary) **99e:68142**
Meseguer, José Membership algebra as a logical framework for equational specification. (English summary) **99h:68117**

— (*with* Montanari, Ugo) Mapping tile logic into rewriting logic. (English summary) **99h:68118**
Mikulás, Szabolcs *see* **Andréka, Hajnal; et al., 99f:03089**
Montanari, Ugo *see* **Meseguer, José, 99h:68118**
Németi, István *see* **Andréka, Hajnal; et al., 99f:03089**
O'Donnell, Michael J. Equational logic programming. **99d:68045**
Oliveira, Joseph *see* **Bailey, Colin, 99d:06008**
Pilitowska, Agata Identities for classes of algebras closed under the complex structures. (English summary) **99f:08001**
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Schmidt-Schauß, Manfred A decision algorithm for distributive unification. (English summary) **99h:68095**
Schweigert, Dietmar (*with* Kilgus, Bernhard) On the lattice of solid equational theories. (*see* **98g:00020**)
Sewell, Peter Nonaxiomatisability of equivalences over finite state processes. (English summary) **99e:68104**
Simon, András *see* **Andréka, Hajnal; et al., 99f:03089**

03C07 Basic properties of first-order languages and structures

Białasik, Marcin *see* **Walicki, Michał**, (**99f:68009**)
Charretton, Christine (*with* Nézondet, Francis) Les va-ou-vient: une généralisation des va-et-vient de Fraïssé. (English and French summaries) [Back-or-forth: a generalization of Fraïssé's back-and-forth] **99d:03030**
Nézondet, Francis *see* **Charretton, Christine, 99d:03030**
Walicki, Michał (*with* Białasik, Marcin) Categories of relational structures. (English summary) (*see* **99f:68009**)

Items with secondary classifications in 03C07

Harrison, John Robert Formalizing basic first order model theory. (English summary) (*see* **99k:68014**)
Paredaens, Jan (*with* Van den Bussche, Jan; Van Gucht, Dirk) First-order queries on finite structures over the reals. (English summary) **99g:68050**
Rubin, Matatyahu Locally moving groups and reconstruction problems. (English summary) **99d:20003**
Van den Bussche, Jan *see* **Paredaens, Jan; et al., 99g:68050**
Van Gucht, Dirk *see* **Paredaens, Jan; et al., 99g:68050**

03C10 Quantifier elimination and related topics

Collins, George E. Quantifier elimination by cylindrical algebraic decomposition—twenty years of progress. (*see* **99b:03007**)
— Quantifier elimination for real closed fields by cylindrical algebraic decomposition. (*see* **99b:03007**)
van den Dries, Lou (*with* Speissegger, Patrick) The real field with convergent generalized power series. (English summary) **99a:03036**
Macintyre, Angus Generic automorphisms of fields. (English summary) **99c:03046**
Maurin, Françoise Ehrenfeucht games and ordinal addition. (English and French summaries) **99a:03037**
Speissegger, Patrick *see* **van den Dries, Lou, 99a:03036**
Weispfenning, Volker A new approach to quantifier elimination for real algebra. (*see* **99b:03007**)

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Anai, Hirokazu On solving semidefinite programming by quantifier elimination. (English summary) (*see* **99h:00034**)
(Caviness, B. F.) *see* **Quantifier elimination and cylindrical algebraic decomposition, 99b:03007**
Ceola, Corine (*with* Lecomte, Pierre B. A.) Computability of a map and decidability of its graph in the model of Blum, Shub and Smale. (English summary) **99a:68054**
Collins, George E. (*with* Hong, Hoon) Partial cylindrical algebraic decomposition for quantifier elimination. (*see* **99b:03007**)
Dolzmann, Andreas (*with* Sturm, Thomas; Weispfenning, Volker) A new approach for automatic theorem proving in real geometry. (English summary) **99m:03021**
— (*with* Sturm, Thomas; Weispfenning, Volker) Real quantifier elimination in practice. (English summary) **99m:13051**
Egidi, Lavinia A quantifier elimination for the theory of p-adic numbers. (English summary) **99m:68082**
González-Vega, Laureano A combinatorial algorithm solving some quantifier elimination problems. (*see* **99b:03007**)
Hong, Hoon Simple solution formula construction in cylindrical algebraic decomposition based quantifier elimination. (*see* **99b:03007**)
— (*with* Sendra, J. Rafael) Computation of variant resultants. (*see* **99b:03007**)
— (*with* Jakuš, Dalibor) Testing positiveness of polynomials. (English summary) **99m:68096**
— *see also* **Collins, George E.**, (**99b:03007**)
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Paredaens, Jan (*with* Van den Bussche, Jan; Van Gucht, Dirk) First-order queries on finite structures over the reals. (English summary) **99g:68050**
Renegar, James Recent progress on the complexity of the decision problem for the reals. (*see* **99b:03007**)
Robinson, Zachary Flatness and smooth points of p-adic subanalytic sets. (English summary) **99b:32050**
Sendra, J. Rafael *see* **Hong, Hoon**, (**99b:03007**)
Sprenger, Klaus-Hilmar Model theory of Boolean products of subdirectly irreducible Heyting algebras. (English summary) **99m:03071**
Sturm, Thomas *see* **Dolzmann, Andreas; et al., 99m:03021** *and* **99m:13051**
Tarski, Alfred A decision method for elementary algebra and geometry. (*see* **99b:03007**)
Thomas, Simon R. The nonexistence of a binary homogeneous pseudoplane. (English summary) **99f:03043**
Van den Bussche, Jan *see* **Paredaens, Jan; et al., 99g:68050**
Van Gucht, Dirk *see* **Paredaens, Jan; et al., 99g:68050**
Weaver, George (*with* Lippel, David) Classifying $\aleph_0$-categorical theories. II. The existence of finitely axiomatizable proper class II theories. (English summary) **99c:03051**
Weispfenning, Volker *see* **Dolzmann, Andreas; et al., 99m:03021** *and* **99m:13051**

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Linz ★ Quantifier elimination and cylindrical algebraic decomposition. **99b:03007**
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Quantifier Elimination and Cylindrical Algebraic Decomposition ★ Quantifier elimination and cylindrical algebraic decomposition. **99b:03007**

03C13 Finite structures

Baldwin, John T. (*with* Benedikt, Michael A.) Embedded finite models, stability theory, and the impact of order. (English summary) **99i:03030**
Benedikt, Michael A. *see* **Baldwin, John T., 99i:03030**
Boppana, Ravi B. (*with* Spencer, Joel H.) Smoothness laws for random ordered graphs. **99k:03031**
Dawar, Anuj A restricted second order logic for finite structures. (English summary) **99f:03038**
Durand, Arnaud (*with* Lautemann, Clemens; Schwentick, Thomas) Subclasses of binary NP. (English summary) **99m:03059**
Dyrda, Kazimiera (*with* Janicka-Żuk, Irena) Axiomatization of the logics determined by finite relational systems of natural numbers with identity. (English summary)
Eiter, Thomas (*with* Gottlob, Georg) On the expressiveness of frame satisfiability and fragments of second-order logic. (English summary) **99a:03038**
Gottlob, Georg Relativized logspace and generalized quantifiers over finite ordered structures. (English summary) **99a:03039**
— *see also* **Eiter, Thomas, 99a:03038**
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Spencer, Joel H. (*with* St. John, Katherine) Random sparse bit strings at the threshold of adjacency. (English summary) **99h:03017**
— *see also* **Boppana, Ravi B., 99k:03031**
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Woods, Alan R. Counting finite models. (English summary) **99c:03047**
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Baldwin, John T. (*with* Shelah, Saharon) DOP and FCP in generic structures. **99m:03064**
Barthelmann, Klaus Nondeterministic operations on finite relational structures. (English summary) **99d:03009**
Benedikt, Michael A. (*with* Keisler, H. Jerome) Expressive power of unary counters. (English summary) **99b:68050**
— (*with* Keisler, H. Jerome) Expressive power of unary counters. (English summary) **99i:03041**
Börger, Egon (*with* Grädel, Erich; Gurevich, Yuri) ★ The classical decision problem. **99b:03004**
Cherlin, Gregory Large finite structures with few types. (English summary) **99d:03031**
Dawar, Anuj (*with* Hella, Lauri; Seth, Anil) Ordering finite variable types with generalized quantifiers. (English summary) **99i:03042**
(Durand, Bruno) *see* **Börger, Egon; et al., 99b:03004**
Eiter, Thomas (*with* Gottlob, Georg; Gurevich, Yuri) Existential second-order logic over strings (extended abstract). (English summary) (*see* **99h:68008**)
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Grädel, Erich *see* **Börger, Egon; et al., 99b:03004**
Grandjean, Étienne (*with* Olive, Frédéric) Monadic logical definability of nondeterministic linear time. (English summary) **99d:68081**
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Wang, Shu He Voronoĭ networks of disordered structures in a box. (Chinese. English and Chinese summaries)

03C15 Denumerable structures

Ikeda, Koichiro (*with* Pillay, Anand; Tsuboi, Akito) On theories having three countable models. (English summary) **99m:03061**
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Becker, Howard Polish group actions: dichotomies and generalized elementary embeddings. (English summary) **99g:03051**
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03C20 Ultraproducts and related constructions

Abe, Yoshihiro (*with* Shioya, Masahiro) Regularity of ultrafilters and fixed points of elementary embeddings. **99h:03018**
Peterson, Douglas Cardinal functions on ultraproducts of Boolean algebras. **99e:03024**
Roslanowski, Andrzej (*with* Shelah, Saharon) Cardinal invariants of ultraproducts of Boolean algebras. (English summary) **99g:03033**
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Rodinò, Nicola Cyclic modules over $\mathrm{End}(V_D)$ whose endomorphism ring is an ultrapower of D. (English summary) **99j:16018**
Wilson, John S. First-order group theory. (English summary) **99f:03045**

03C25 Model-theoretic forcing

Grulović, Milan Z. *see* **Ignjatović, Aleksandar, 99c:03050**
Ignjatović, Aleksandar (*with* Grulović, Milan Z.) A comment on the joint embedding property. (English summary) **99c:03050**

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03C30 Other model constructions

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03C35 Categoricity and completeness of theories

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Shishmarev, Yu. E. Some classes of countably categorical graphs. (Russian. Russian summary) (*see* **99k:00020**)
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Khusainov, B. M. (*with* Nies, André; Shore, Richard A.) Computable models of theories with few models. (English summary) **99c:03049**
Nies, André *see* **Khusainov, B. M.; et al., 99c:03049**
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Seager, Suzanne M. Partition dominations of graphs of minimum degree 2. (English summary) **99j:05156**
Shore, Richard A. *see* **Khusainov, B. M.; et al., 99c:03049**
Tsuboi, Akito *see* **Ikeda, Koichiro; et al., 99m:03061**

03C40 Interpolation, preservation, definability

Bie, Rong Fang The Malitz interpolation theorem in lattice-valued model theory of $\mathscr{L}_{\omega_1\omega}$. (Chinese. English and Chinese summaries) **99g:03034**
Lynch, James F. Pebble games in model theory. (English summary) **99i:03033**
Peterzil, Ya'acov Zil′ber's trichotomy and o-minimal structures (extended abstract). (*see* **99m:03003**)

Items with secondary classifications in 03C40

Ballard, David (*with* Boshuck, William) Definability and descent. **99f:03092**
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Cornelissen, Gunther Stockage diophantien et hypothèse *abc* généralisée. (English and French summaries) [Diophantine storing and the generalized *abc*-hypothesis] **99i:03036**
Galbiati, Giulia (*with* Morzenti, Angelo; Maffioli, Francesco) On the logical definability of some maximum leaves problems. (English summary) **99g:68072**
Holly, Jan E. Prototypes for definable subsets of algebraically closed valued fields. (English summary) **99k:03033**
Maffioli, Francesco *see* **Galbiati, Giulia; et al., 99g:68072**
Morzenti, Angelo *see* **Galbiati, Giulia; et al., 99g:68072**
Niwiński, Damian *see* **Stolboushkin, A. P., 99a:68077**
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Tyszkiewicz, Jerzy A note on the Kolmogorov data complexity and nonuniform logical definitions. (English summary) **99b:03047**

03C45 Stability and related concepts

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Cherlin, Gregory Large finite structures with few types. (English summary) **99d:03031**
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Hart, Bradd (*with* Laskowski, Michael C.) A survey of the uncountable spectra of countable theories. **99c:03053**
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Hyttinen, Tapani On nonstructure of elementary submodels of a stable homogeneous structure. (English summary) **99i:03034**
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Thomas, Simon R. The nonexistence of a binary homogeneous pseudoplane. (English summary) **99f:03043**
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Bays, Timothy Some two-cardinal results for o-minimal theories. (English summary) **99m:03072**
Benedikt, Michael A. *see* **Baldwin, John T., 99i:03030**
Casanovas, Enrique A test for expandability. (English summary) **99h:03019**
Chatzidakis, Zoé Model theory of profinite groups having the Iwasawa property. **99j:03027**
Ikeda, Koichiro (*with* Pillay, Anand; Tsuboi, Akito) On theories having three countable models. (English summary) **99m:03061**
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Macpherson, Dugald Homogeneous and smoothly approximated structures. **99c:03055**
Marker, David (*with* Pillay, Anand) Differential Galois theory. III. Some inverse problems. **99m:12011**

Pillay, Anand Differential Galois theory. II. (English summary) **99m:12010**
— (*with* Tsuboi, Akito) Amalgamations preserving $\aleph_0$-categoricity. **99m:03062**
— Differential Galois theory. I. **99m:12009**
— *see also* **Ikeda, Koichiro; et al., 99m:03061** *and* **Marker, David, 99m:12011**
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03C50 Models with special properties (saturated, rigid, etc.)

Casanovas, Enrique A test for expandability. (English summary) **99h:03019**
Chen, Guolong Saturated models. (English summary)
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Bamber, Nicholas (*with* Kotlarski, Henryk) On interstices of countable arithmetically saturated models of Peano arithmetic. (English summary) **99a:03040**
Cherlin, Gregory Large finite structures with few types. (English summary) **99d:03031**
van den Dries, Lou ★ Tame topology and o-minimal structures. (English summary) **99j:03001**
Haskell, Deirdre (*with* Macpherson, Dugald) A version of o-minimality for the p-adics. **99j:03028**
Hyttinen, Tapani Generalizing Morley's theorem. (English summary) **99d:03032**
Jin, Renling Type two cuts, bad cuts and very bad cuts. (English summary) **99j:03057**
Kotlarski, Henryk *see* **Bamber, Nicholas, 99a:03040**
Lachlan, Alistair H. Stable finitely homogeneous structures: a survey. (*see* **98e:03026**)
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Mendris, Robert (*with* Zlatoš, Pavol) Axiomatization and undecidability results for linear betweenness relations. (English summary) **99d:03036**
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Walicki, Michał (*with* Białasik, Marcin) Categories of relational structures. (English summary) (*see* **99f:68009**)
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03C55 Set-theoretic model theory

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Peterson, Douglas Cardinal functions on ultraproducts of Boolean algebras. **99e:03024**
Vaughan, Jerry E. On Dow's reflection theorem for metrizable spaces. (English summary) **99m:54018**

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Cenzer, Douglas (*with* Remmel, Jeffrey B.) Complexity and categoricity. (English summary) **99c:03056**
Harizanov, Valentina S. Turing degrees of certain isomorphic images of computable relations. (English summary) **99m:03066**
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Kalenova, B. S. Computability of the class of strongly constructivizable abelian p-groups. (English summary) **99i:03035**
Kasymov, N. Kh. Recursively separable algebras and universal Horn propositions. (Russian. English and Uzbek summaries) **99m:03068**
Khusainov, B. M. (*with* Shore, Richard A.) Categoricity and Scott families. (*see* **99d:68003**)
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D'Aquino, Paola Toward the limits of the Tennenbaum phenomenon. (English summary) **99a:03041**
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Ishihara, Hajime (*with* Khusainov, B. M.; Nerode, Anil) Decidable Kripke models of intuitionistic theories. (English summary) **99m:03075**
— (*with* Khusainov, B. M.; Nerode, Anil) Computable Kripke models and intermediate logics. (English summary) **99m:03089**
Kalantari, Iraj (*with* Welch, Lawrence) Point-free topological spaces, functions and recursive points; filter foundation for recursive analysis. I. (English summary) **99d:03041**
Kaye, Richard William Infinitary definitions of equivalence relations in models of PA. **99g:03039**
Khusainov, B. M. (*with* Nies, André; Shore, Richard A.) Computable models of theories with few models. (English summary) **99c:03049**
— (*with* Shore, Richard A.) Computable isomorphisms, degree spectra of relations, and Scott families. (English summary) **99g:03046**
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03C60 Model-theoretic algebra [see also 08C10, 12Lxx, 13L05]

Astier, Vincent Quelques propriétés-modèle théoriques des groupes spéciaux réduits. (English and French summaries) [Some model-theoretic properties of reduced special groups] **99d:03034**
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Goncharov, S. S. Decidable Boolean algebras of low level. (English summary) **99i:03037**
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Herzog, Ivo Model theory of modules (extended abstract). (*see* **99m:03003**)
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Lai, Yu Ting A model-theoretic proof of the zero-point theorem for Cayley-Dickson algebras. (Chinese. English and Chinese summaries)
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Cherlin, Gregory Large finite structures with few types. (English summary) **99d:03031**
— *see also* **Altinel, Tuna; et al.**, **99f:20057**
Collins, George E. Quantifier elimination by cylindrical algebraic decomposition—twenty years of progress. (*see* **99b:03007**)
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Hébert, Michel On generation and implicit partial operations in locally presentable categories. (English summary) **99i:18002**
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Kalenova, B. S. (*with* Khisamiev, N. G.) On homogeneous abelian groups. (Russian. Russian summary) **99a:20060**
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Goldblatt, Robert Enlargements of functional algebras for the lambda calculus. (English summary) **99b:03027**
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Schwentick, Thomas (*with* Barthelmann, Klaus) Local normal forms for first-order logic with applications to games and automata. (English summary) **99g:03042**

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Alaev, P. E. Scott ranks of Boolean algebras [translation of Trudy Instituta Matematiki, Vol. 30, 3–25, Izdat. Ross. Akad. Nauk Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99i:03080**
Bie, Rong Fang The Malitz interpolation theorem in lattice-valued model theory of $\mathscr{L}_{\omega_1\omega}$. (Chinese. English and Chinese summaries) **99g:03034**
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Dawar, Anuj (*with* Hella, Lauri; Seth, Anil) Ordering finite variable types with generalized quantifiers. (English summary) **99i:03042**
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Krynicki, Michał (*with* Szczerba, Lesław W.) On the logic with rough quantifier. (English summary) (*see* **99d:04012**)
Lacombe, Daniel Logique du premier ordre avec quantificateur cardinalisé. [First-order logic with a cardinality quantifier] (*see* **99f:00042**)
Libkin, Leonid (*with* Wong, Limsoon) Unary quantifiers, transitive closure, and relations of large degree. (English summary) (*see* **99f:68011**)
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Xue, Rui The model reducibility of the generalized theory $T(Q)$ of modules over finite commutative principal ideal rings. (Chinese. English and Chinese summaries) **99m:03074**

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Hoang, H. K. *see* **Gire, F.**, **99m:68061**
Keisler, H. Jerome *see* **Benedikt, Michael A.**, **99b:68050**
Mitchell, William P. R. The carcinogenic example. (English summary) **99f:03080**
Sandu, Gabriel IF-logic and truth-definition. (English summary) **99f:03003**
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— The Kolmogorov expressive power of Boolean query languages. (English summary) **99g:68102**
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03C85 Second- and higher-order model theory

Eiter, Thomas (*with* Gottlob, Georg; Gurevich, Yuri) Existential second-order logic over strings (extended abstract). (English summary) (*see* **99h:68008**)
Gottlob, Georg *see* **Eiter, Thomas; et al.**, (**99h:68008**)
Gurevich, Yuri *see* **Eiter, Thomas; et al.**, (**99h:68008**)
Lifsches, Shmuel (*with* Shelah, Saharon) Peano arithmetic may not be interpretable in the monadic theory of linear orders. (English summary) **99b:03054**
— (*with* Shelah, Saharon) Uniformization and Skolem functions in the class of trees. (English summary) **99i:03045**
Matz, Oliver One quantifier will do in existential monadic second-order logic over pictures. (English summary) (*see* **99m:68010**)
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Courcelle, Bruno (*with* Downey, Rodney G.; Fellows, Michael R.) A note on the computability of graph minor obstruction sets for monadic second order ideals. (English summary) **99h:68129**
— (*with* Walukiewicz, Igor) Monadic second-order logic, graph coverings and unfoldings of transition systems. (English summary) **99g:68130**
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03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

Coquand, Thierry Two applications of Boolean models. (English summary) **99j:03029**
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Lyubetskiĭ, V. A. Transfer theorems and the algebra of modal operators. (Russian. Russian summary) **99a:03061**
Samuel, Pierre Modèles booléiens et hypothèse du continu (résultats de Paul Cohen par la méthode de D. Scott et R. Solovay). [Boolean-valued models and the continuum hypothesis (results of Paul Cohen using the method of D. Scott and R. Solovay)] (*see* **99f:00042**)

03C95 Abstract model theory

Liu, Fu Chun Institutions of regular order-sorted equational logics. (Chinese. English and Chinese summaries)

Items with secondary classifications in 03C95

Adámek, Jiří (*with* Johnstone, Peter; Makowsky, Johann A.; Rosický, Jiří) Finitary sketches. (English summary) **99e:03044**
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Rosický, Jiří Accessible categories, saturation and categoricity. (English summary) **99f:03049**
— *see also* **Adámek, Jiří; et al., 99e:03044**

03C99 None of the above, but in this section

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03Dxx Recursion theory

(Cenzer, Douglas) *see* **Computability theory, 99d:03038**
(Remmel, Jeffrey B.) *see* **Computability theory, 99d:03038**
Sacks, Gerald E. Recursion theory. (Italian)

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(Ambos-Spies, Klaus) *see* **Conference: Computability Theory, 99b:03006**
Hopcroft, John E. (*with* Ullman, Jeffrey D.) ★ Wprowadzenie do teorii automatów, języków i obliczeń. (Polish. Polish summary) [Introduction to automata theory, languages, and computation] **99a:68001**
(Konikowska, Beata) *see* **Hopcroft, John E., 99a:68001**
(Slaman, Theodore A.) *see* **Conference: Computability Theory, 99b:03006**
(Soare, Robert I.) *see* **Conference: Computability Theory, 99b:03006**
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03D03 Thue and Post systems, etc.

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Lynch, Christopher The unification problem for one relation Thue systems. (English summary) **99m:03076**
Sieg, Wilfried (*with* Byrnes, John) K-graph machines: generalizing Turing's machines and arguments. (English summary) **99b:03055**

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03D05 Automata and formal grammars in connection with logical questions [see also 68Qxx]

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Jutla, Charanjit S. Determinization and memoryless winning strategies. (English summary) **99a:03042**
Parker, D. Stott Schur complements obey Lambek's categorial grammar: another view of Gaussian elimination and LU decomposition. (English summary) **99j:03030**
Pucella, R. R. An analysis of Lambek's production machines. (English and French summaries) **99b:03056**
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Arnold, André A selection property of the Boolean μ-calculus and some of its applications. (English summary) **99g:03030**
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— Automata, semigroups and recognizability of words on ordinals. (English summary) **99a:68127**
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Bie, Rong Fang The number of $\sim_{L(MP)}$ equivalence classes of words. (Chinese. English and Chinese summaries) **99a:68138**
— (*with* Shen, En Shao) **Z**-automata and partition logics. (Chinese. English and Chinese summaries) **99a:68124**
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— *see also* **Bloom, Stephen L., 99b:03045**
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— (*with* Wilke, Thomas; Wolper, Pierre) An algorithmic approach for checking closure properties of temporal logic specifications and ω-regular languages. (English summary) **99i:68081**
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03D10 Turing machines and related notions [see also 68Q05]

Tamari, Dov Machines logiques et problèmes de mots. I. Les machines de Turing. [Logical machines and word problems. I. Turing machines] (*see* **99f:00034**)

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Adleman, Leonard M. (*with* Demarrais, Jonathan; Huang, Ming-Deh A.) Quantum computability. (English summary) **99e:68035**
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Bennett, Charles H. (*with* Bernstein, Ethan; Brassard, Gilles; Vazirani, Umesh) Strengths and weaknesses of quantum computing. (English summary) **99e:68034**
Bernstein, Ethan (*with* Vazirani, Umesh) Quantum complexity theory. (English summary) **99a:68053**
— *see also* **Bennett, Charles H.; et al., 99e:68034**
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Hemmerling, Armin Computability of string functions over algebraic structures. (English summary) **99j:68030**
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Okazaki, Tokio (*with* Inoue, Katsushi; Ito, Akira; Wang, Yue[2]) A note on two-dimensional probabilistic Turing machines. (English summary) (*see* **99i:65003**)
— (*with* Inoue, Katsushi; Ito, Akira; Wang, Yue[2]) Closure properties of the classes of sets recognized by space-bounded two-dimensional probabilistic Turing machines. (English summary) **99k:68056**
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Shin, Hyun Song (*with* Williamson, Timothy) Representing the knowledge of Turing machines [MR 95b:90189]. (*see* **99k:00028**)
Sieg, Wilfried (*with* Byrnes, John) K-graph machines: generalizing Turing's machines and arguments. (English summary) **99b:03055**
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Holt, Derek F. (*with* Hurt, Darren F.) Computing automatic coset systems and subgroup presentations. (English summary) **99j:20038**
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03D45 Theory of numerations, effectively presented structures [see also 03C57]

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03D70 Inductive definability

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Wiklicky, Herbert Quantitative computation by Hilbert machines. (English summary) **99j:68034**

03D80 Applications of recursion theory

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03Exx Set theory [see also 04–XX]

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Hajnal, András (*with* Juhász, István; Szentmiklóssy, Z.) On CCC Boolean algebras and partial orders. (English summary) **99d:06006**
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03E10 Ordinal and cardinal numbers [see also 04A10]

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Rabus, Mariusz (*with* Shelah, Saharon) Topological density of ccc Boolean algebras—every cardinality occurs. (English summary) **99m:06026**
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03E15 Descriptive set theory [see also 04A15, 28A05, 54H05]

Bagaria, Joan (*with* Woodin, W. Hugh) $\underset{\sim}{\Delta}^1_n$ sets of reals. **99j:03038**
Balcerzak, Marek (*with* Rosłanowski, Andrzej; Shelah, Saharon) Ideals without ccc. (English summary) **99j:03039**
Becker, Howard Polish group actions: dichotomies and generalized elementary embeddings. (English summary) **99g:03051**
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Kamburelis, Anastasis Dominating analytic families. (English summary) **99i:03056**
Kanovei, Vladimir Non-Glimm-Effros equivalence relations at second projective level. (English summary) **99j:03040**
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— *see also* **Balcerzak, Marek; et al., 99j:03039**
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— Gaps in analytic quotients. (English summary) **99i:03059**
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Brendle, Jörg Mob families and mad families. (English summary) **99m:03098**
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Edalat, Abbas Domains for computation in mathematics, physics and exact real arithmetic. (English summary) **99m:03091**
Hjorth, Greg (*with* Kechris, Alexander S.) Borel equivalence relations and classifications of countable models. (English summary) **99m:03073**
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Matsubara, Yō Nonstationary ideals and the universe of sets. (Japanese. Japanese summary)
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Scheepers, Marion Strong measure zero sets, filters, and pointwise convergence. **99k:54030**
Selivanov, V. L. Fine hierarchy of regular ω-languages. (English summary) **99f:68126**
Shortt, Rae Michael (*with* Bhaskara Rao, K. P. S.) Borel spaces. II. **99d:28004**
Slaman, Theodore A. (*with* Woodin, W. Hugh) Extending partial orders to dense linear orders. (English summary) **99f:06002**
Steel, John R. (*with* Welch, Philip David) Σ^1_3 absoluteness and the second uniform indiscernible. (English summary) **99d:03044**
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Wate, Masamichi (*with* Yaku, Takeo) Recursive enumerability in set theory. (English summary) (*see* **99i:65003**)
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Nowik, Andrzej (*with* Scheepers, Marion; Weiss, Tomasz) The algebraic sum of sets of real numbers with strong measure zero sets. (English summary) **99c:54049**
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03E25 Axiom of choice and related propositions [see also 04A25]

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Bentley, H. L. (*with* Herrlich, Horst) Countable choice and pseudometric spaces. (English summary) **99k:03041**
Brunner, N. (*with* Howard, Paul E.; Rubin, Jean E.) Choice principles in Węglorz' models. (English summary) **99e:03033**
De la Cruz, Omar (*with* Di Prisco, Carlos Augusto) Weak forms of the axiom of choice and partitions of infinite sets. (English summary) **99f:03068**
Di Prisco, Carlos Augusto *see* **De la Cruz, Omar, 99f:03068**
Erné, Marcel Prime ideal theorems and systems of finite character. (English summary) **99c:03068**
Forti, Marco (*with* Honsell, Furio) Addendum and corrigendum: "Choice principles in hyperuniverses" [Ann. Pure Appl. Logic **77** (1996), no. 1, 35–52; MR 97a:03060]. (English summary) **99c:03069**
Fossy, Jules (*with* Morillon, Marianne) The Baire category property and some notions of compactness. (English summary) **99m:03096**
Herrlich, Horst (*with* Strecker, George E.) When is **N** Lindelöf? (English summary) **99c:03070**
— (*with* Steprāns, Juris) Maximal filters, continuity and choice principles. (English summary) **99m:03097**
— *see also* **Bentley, H. L., 99k:03041**
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— (*with* Keremedis, Kyriakos; Rubin, Herman; Rubin, Jean E.) Versions of normality and some weak forms of the axiom of choice. (English summary) **99h:03027**
— *see also* **Brunner, N.; et al., 99e:03033**
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— *see also* **Howard, Paul E.; et al., 99h:03027**
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Items with secondary classifications in 03E25

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Coquand, Thierry *see* **Berardi, Stefano; et al., 99f:03081**
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Khakhanyan, V. Kh. Independence of a special case of the axiom of choice in intuitionistic set theory. (Russian) **99a:03060**
Kim, Ig Sung On the axiom of choice in a well-pointed topos. (English summary)
Negri, Sara (*with* Valentini, Silvio) Tychonoff's theorem in the framework of formal topologies. **99d:54005**
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03E30 Axiomatics of classical set theory and its fragments

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Jayaraman, Bharat (*with* Jana, Devashis) Set constructors, finite sets, and logical semantics. (English summary) **99i:03060**
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Items with secondary classifications in 03E30

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Goldstern, Martin (*with* Kojman, Menachem) Rules and reals. (English summary) **99h:03029**
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Komjáth, Péter A note on $\omega_1 \to \omega_1$ functions. **99e:03034**
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Laver, Richard Adding dominating functions mod finite. (English summary) **99m:03100**
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Samuel, Pierre Modèles booléiens et hypothèse du continu (résultats de Paul Cohen par la méthode de D. Scott et R. Solovay). [Boolean-valued models and the continuum hypothesis (results of Paul Cohen using the method of D. Scott and R. Solovay)] (*see* **99f:00042**)

Items with secondary classifications in 03E35

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— Forcing axioms. (English summary) **99f:03072**
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— (*with* Natkaniec, Tomasz) On Sierpiński-Zygmund bijections and their inverses. (English summary) **99k:26001**

— *see also* **Burke, Maxim R.**, **99i:28004**
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— The regular open algebra of $\beta\mathbf{R} \setminus \mathbf{R}$ is not equal to the completion of $\mathcal{P}(\omega)/\mathrm{fin}$. (English summary) **99c:54008**
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— *see also* **Todorčević, Stevo B.**, **99f:03001**
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— (*with* Soukup, Lajos) More set-theory around the weak Freese-Nation property. (English summary) **99a:03048**
— (*with* Plewik, Szymon) On a theorem of E. Helly. (English summary) **99c:26001**
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Howard, Paul E. (*with* Rubin, Jean E.) ★ Consequences of the axiom of choice. (English summary) **99h:03026**
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— *see also* **Lifsches, Shmuel**, **99b:03054**; **Rosłanowski, Andrzej**, **99g:03033**; **Goldstern, Martin**, **99g:06010**; **Balcerzak, Marek; et al.**, **99j:03039** *and* **Fuchino, Sakaé; et al.**, **99j:03044**
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03E40 Other aspects of forcing and Boolean-valued models

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Luan, Jing Wen A Boolean-valued model of the conglomerate axiomatic system ZF_c. (Chinese. English and Chinese summaries)
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Burke, Maxim R. Forcing axioms. (English summary) **99f:03072**
Di Prisco, Carlos Augusto (*with* Todorčević, Stevo B.) Perfect-set properties in $L(\mathbf{R})[U]$. (English summary) **99m:03102**
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Grunberg, Renata (*with* Junqueira, Lúcia R.; Tall, Franklin D.) Forcing and normality. (English summary) **99e:54016**
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— (*with* Reeken, Michael) Mathematics in a nonstandard world. II. **99h:03045**
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03E45 Constructibility, ordinal definability, and related notions

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Groszek, Marcia J. (*with* Slaman, Theodore A.) A basis theorem for perfect sets. (English summary) **99c:03072**
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— (*with* Steel, John R.) The maximality of the core model. **99m:03104**
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— (*with* Welch, Philip David) Σ^1_3 absoluteness and the second uniform indiscernible. (English summary) **99d:03044**
— *see also* **Schimmerling, E.**, **99m:03104**
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Veličković, Boban *see* **Friedman, Sy D.**, **99g:03049**
Wate, Masamichi (*with* Yaku, Takeo) Recursive enumerability in set theory. (English summary) (*see* **99i:65003**)
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03E47 Other notions of set-theoretic definability

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03E50 Continuum hypothesis and Martin's axiom [see also 04A30, 54A25]

Items with secondary classifications in 03E50

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Burke, Maxim R. (*with* Ciesielski, Krzysztof²) Sets on which measurable functions are determined by their range. (English summary) **99i:28004**
— Forcing axioms. (English summary) **99f:03072**
Ciesielski, Krzysztof² (*with* Natkaniec, Tomasz) Algebraic properties of the class of Sierpiński-Zygmund functions. (English summary) **99c:04003**
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— *see also* **Burke, Maxim R., 99i:28004**
Cook, H. (*with* Reed, G. M.) On the non-productivity of normality in Moore spaces. (English summary) **99f:54036**
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Dubins, Lester E. (*with* Prikry, Karel) On the existence of disintegrations. (English summary) **99m:28013**
Fernández Novoa, J. Moderation of sigma-finite Borel measures. (English summary) **99c:28037**
Fremlin, D. H. On compact spaces carrying Radon measures of uncountable Maharam type. (English summary) **99d:28019**
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Kundu, Subiman (*with* Raha, A. B.) Addendum: "The bounded-open topology and its relatives" [Rend. Istit. Mat. Univ. Trieste **27** (1995), no. 1-2, 61–77; MR 98a:54011]. (English summary)
Laver, Richard Adding dominating functions mod finite. (English summary) **99m:03100**
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Rosłanowski, Andrzej (*with* Shelah, Saharon) Simple forcing notions and forcing axioms. **99j:03043**
Samuel, Pierre Modèles booléiens et hypothèse du continu (résultats de Paul Cohen par la méthode de D. Scott et R. Solovay). [Boolean-valued models and the continuum hypothesis (results of Paul Cohen using the method of D. Scott and R. Solovay)] (*see* **99f:00042**)
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— (*with* Trigos-Arrieta, F. Javier) Suitable sets in products of topological groups and in groups equipped with the Bohr topology. (English summary) **99m:22002**
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Zambakhidze, L. G. Martin's axiom and realization problems of dimensional-like functions in Tychonoff's space class. (Russian and Georgian summaries)

03E55 Large cardinals

Abe, Yoshihiro A variant of the diamond principle for combinatorial ideals. (English summary) **99f:03070**
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Dehornoy, Patrick Une autre application de la théorie des ensembles. [Another application of set theory] **99c:03073**
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03E75 Applications

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03Fxx Proof theory and constructive mathematics

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03F25 Relative consistency and interpretations

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03F30 First-order arithmetic and fragments

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Moschovakis, Joan Rand A classical view of the intuitionistic continuum. **99b:03077**
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Troelstra, A. S. Realizability. **99f:03084**
Yasugi, Mariko Memories of proof theory—focusing on consistency proofs. (Japanese) **99b:03072**

03F40 Gödel numberings in proof theory

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Christian, C. C. Ein Äquivalent zum 1. Unvollständigkeitssatz. [An equivalent to the first incompleteness theorem] **99b:03075**
Lindström, Per Provability logic—a short introduction. **99i:03017**
Russu, A. G. On the cardinality of formula bases and the absence of residual finiteness with respect to completeness in propositional provability logic. (Russian. English and Moldavian summaries) **99m:03037**
Sidon, Tatiana Provability logic with operations on proofs. (English summary) **99b:03032**
Wolter, Frank All finitely axiomatizable subframe logics containing the provability logic CSM_0 are decidable. (English summary) **99j:03016**
Zolin, E. E. The Craig interpolation property in logics of proofs with a strong provability operator. (Russian) **99c:03028**

03F50 Metamathematics of constructive systems

Albrecht, David (*with* Crossley, John N.; Jeavons, John S.) New Curry-Howard terms for full linear logic. (English summary) **99a:03058**
Bellin, G. (*with* Fleury, A.) Planar and braided proof-nets for multiplicative linear logic with mix. (English summary) **99m:03120**
van Benthem, Johan A new world underneath standard logic: cylindric algebra, modality and quantification. **99a:03059**
Braüner, Torben A general adequacy result for a linear functional language. (English summary) **99c:03097**
Castellan, Maurizio (*with* Piazza, Mario) Saturated formulas in full linear logic. (English summary) **99i:03077**
Crossley, John N. *see* **Albrecht, David; et al.**, **99a:03058**
Danos, Vincent (*with* Joinet, Jean-Baptiste; Schellinx, Harold) A new deconstructive logic: linear logic. (English summary) **99b:03076**
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Lafont, Yves The finite model property for various fragments of linear logic. **99m:03121**
Mackie, Ian Linear logic with boxes. (English summary) **99i:03078**
Marzetta, Markus (*with* Strahm, Thomas) The μ quantification operator in explicit mathematics with universes and iterated fixed point theories with ordinals. (English summary) **99m:03122**
Mints, G. Normal deduction in the intuitionistic linear logic. (English summary) **99h:03038**
Mitchell, William P. R. The carcinogenic example. (English summary) **99f:03080**
Okada, Mitsuhiro (*with* Terui, Kazushige) Completeness proofs for linear logic based on the proof search method (preliminary report). (English summary) (*see* **99d:68014**)
Piazza, Mario *see* **Castellan, Maurizio**, **99i:03077**
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Abrusci, V. Michele (*with* Fouqueré, Christophe; Vauzeilles, Jacqueline) Tree adjoining grammars in noncommutative linear logic (extended abstract). (English summary) (*see* **99d:03004**)
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Bechet, Denis (*with* de Groote, Philippe) Constructing different phonological bracketings from a proof net. (English summary) **99e:68132**
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Bezem, Marc (*with* Klop, Jan Willem; van Oostrom, Vincent) Diagram techniques for confluence. (English summary) **99e:68080**
Caires, Luís (*with* Monteiro, Luís) Proof net semantics of proof search computation. (English summary) (*see* **99b:68002**)
Delzanno, Giorgio Specification of term rewriting in linear logic. (English summary) (*see* **99h:68013**)
Fouqueré, Christophe *see* **Abrusci, V. Michele; et al.**, (**99d:03004**)
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Krishnan, Padmanabhan (*with* Hopkins, Jane) A process algebraic view of linear logic. (English summary) **99e:68046**
Lecomte, Alain (*with* Retoré, Christian) Words as modules: a lexicalised grammar in the framework of linear logic proof nets. (English summary) (*see* **99g:68003**)
Lyubetskiĭ, V. A. Transfer theorems and the algebra of modal operators. (Russian. Russian summary) **99a:03061**
Marek, V. Wiktor (*with* Nerode, Anil; Remmel, Jeffrey B.) Nonmonotonic rule systems with recursive sets of restraints. (English summary) **99a:03032**
Matsuoka, Satoshi A new proof search method for linear logic. (English summary) (*see* **99d:68003**)
— Towards a higher order unification based on proof nets. (English summary) **99e:68143**
McCusker, Guy Games and definability for FPC. (English summary) **99f:03015**
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Mints, G. Three faces of natural deduction. **99k:03011**
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Schena, Irene Pomset logic and variants in natural languages. (English summary) (*see* **99d:03004**)
Shirahata, Masaru A coherence space semantics for linear set theory. (English summary) (*see* **99a:03003**)
Strahm, Thomas Polynomial time operations in explicit mathematics. (English summary) **99j:03050**
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03F55 Intuitionistic mathematics

Berardi, Stefano (*with* Bezem, Marc; Coquand, Thierry) On the computational content of the axiom of choice. (English summary) **99f:03081**
Bezem, Marc *see* **Berardi, Stefano; et al.**, **99f:03081**
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van Dalen, Dirk How connected is the intuitionistic continuum? **99j:03052**
Ferreira, Fernando (*with* Marques, António) Extracting algorithms from intuitionistic proofs. (English summary) **99f:03082**
Horsten, Leon Provability in principle and controversial constructivistic principles. (English summary) **99f:03083**
Khakhanyan, V. Kh. Independence of a special case of the axiom of choice in intuitionistic set theory. (Russian) **99a:03060**
Lyubetskiĭ, V. A. Transfer theorems and the algebra of modal operators. (Russian. Russian summary) **99a:03061**
— Transfer theorems and intuitionistic set theory. (Russian) **99j:03053**
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Moschovakis, Joan Rand A classical view of the intuitionistic continuum. **99b:03077**
Troelstra, A. S. Realizability. **99f:03084**
Wehmeier, Kai F. Fragments of HA based on Σ_1-induction. (English summary) **99a:03062**

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Bell, John L. ★ A primer of infinitesimal analysis. (English summary) **99a:00002**
Bel'tyukov, A. P. Intuitionistic formal theories with realizability in subrecursive classes. (English summary) **99f:03079**
Biswas, Ranjit *see* **De, Supriya Kumar; et al.**
Brown, Lawrence M. (*with* Diker, Murat) Ditopological texture spaces and intuitionistic sets. (English summary) **99d:03046**
Buchholz, Wilfried An intuitionistic fixed point theory. (English summary) **99c:03090**
Çoker, Doğan A note on intuitionistic sets and intuitionistic points. (English and Turkish summaries) **99c:03100**
— *see also* **Coşkun, Erdal**
Cook, Roy (*with* Shapiro, Stewart) J. Hintikka's revolution. Review of *The principles of mathematics revisited* [Cambridge Univ. Press, Cambridge, 1996; MR 97j:03005].
Coşkun, Erdal (*with* Çoker, Doğan) On neighborhood structures in intuitionistic topological spaces. (English summary)
van Dalen, Dirk From a Brouwerian point of view. (English summary) **99i:03004**

Danos, Vincent (*with* Joinet, Jean-Baptiste; Schellinx, Harold) A new deconstructive logic: linear logic. (English summary) **99b:03076**
De, Supriya Kumar (*with* Biswas, Ranjit; Roy, Akhil Ranjan) Multicriteria decision making using intuitionistic fuzzy set theory. (English summary)
Diker, Murat *see* **Brown, Lawrence M., 99d:03046**
Farkh, Samir (*with* Nour, Karim) Un résultat de complétude pour les types $\forall^+$ du système $\mathcal{F}$. (English and French summaries) [A completeness result for the $\forall^+$ types of system $\mathcal{F}$] **99d:03014**
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Joinet, Jean-Baptiste *see* **Danos, Vincent; et al., 99b:03076**
Mints, G. Three faces of natural deduction. **99k:03011**
Moerdijk, Ieke (*with* Palmgren, Erik) Minimal models of Heyting arithmetic. **99i:03074**
Nour, Karim *see* **Farkh, Samir, 99d:03014**
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Plisko, V. E. Modified realizability and predicate logic. (Russian. Russian summary) **99h:03037**
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San Luis Fernández, Ana María ★ Estabilidad transversal de gérmenes representables infinitesimalmente. (Spanish) [Transverse stability of infinitesimally represented germs] **99b:58008**
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Titani, Satoko Completeness of global intuitionistic set theory. **99d:03045**
Troelstra, A. S. Concepts and axioms. (English summary) **99j:03005**

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03F60 Constructive and recursive analysis [see also 26E40, 46S30, 47S30]

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Brattka, Vasco Recursive characterization of computable real-valued functions and relations. (English summary) **99e:03041**
Bridges, Douglas (*with* Wang, Yuchuan) Constructing cutoff functions. (English summary) **99d:03058**
— (*with* Mines, Ray) Sequentially continuous linear mappings in constructive analysis. **99f:03085**
Calude, Cristian S. (*with* Zamfirescu, Tudor) The typical number is a lexicon. (English summary) **99f:03086**
Çoker, Doğan A note on intuitionistic sets and intuitionistic points. (English and Turkish summaries) **99c:03100**
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Takasaki, Kanehisa Differential equations and computability. (Japanese. Japanese summary) (*see* **99c:00013**)
Wang, Yuchuan *see* **Bridges, Douglas, 99d:03058**
Weihrauch, Klaus (*with* Zheng, Xizhong) Effectiveness of the global modulus of continuity on metric spaces. (English summary) **99d:03059**
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Zhou, Qing[2] Subclasses of computable real valued functions. (English summary) **99m:03123**

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Bridges, Douglas (*with* Ishihara, Hajime) Spectra of selfadjoint operators in constructive analysis. (English summary) **99a:47003**
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— (*with* Wang, Yuchuan) Constructive weak solutions of the Dirichlet problem. (English summary) **99k:35032**
— (*with* Ishihara, Hajime) A definite constructive open mapping theorem? (English summary) **99f:46009**
— (*with* Wang, Yuchuan) Weak solutions of the Dirichlet problem and the locatedness of $H_0^1(\Omega)$. (English summary) **99c:35029**
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(Marek, V. Wiktor) *see* **Handbook: Recursive mathematics, 99k:03004**
Maurey, Bernard (*with* Tacchi, Jean-Pierre) À propos du théorème de densité de Lebesgue. (English summary) [On Lebesgue's density theorem] **99f:26002**
(Nerode, Anil) *see* **Handbook: Recursive mathematics, 99k:03004**
(Remmel, Jeffrey B.) *see* **Handbook: Recursive mathematics, 99k:03004**
Tacchi, Jean-Pierre *see* **Maurey, Bernard, 99f:26002**
Tanaka, Kazuyuki[1] Non-standard analysis in WKL_0. (English summary) **99c:03096**
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Weihrauch, Klaus A refined model of computation for continuous problems. (English summary) **99g:65136**

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Recursive mathematics ★ Handbook of recursive mathematics. Vol. 2. **99k:03004**

03F65 Other constructive mathematics [see also 26E40, 46S30, 47S30]

Bell, John L. Zorn's lemma and complete Boolean algebras in intuitionistic type theories. (English summary) **99g:03062**
Bridges, Douglas (*with* Richman, Fred; Wang, Yuchuan) Sets, complements and boundaries. (English summary) **99f:03087**
Hertling, Peter H. Effectivity and effective continuity of functions between computable metric spaces. (English summary) **99e:03042**
Jäger, Gerhard Power types in explicit mathematics? (English summary) **99g:03063**
Lombardi, Henri Relecture constructive de la théorie d'Artin-Schreier. (English and French summaries) [A constructive rereading of the Artin-Schreier theory] **99f:03088**
Lurie, Jacob The effective content of surreal algebra. (English summary) **99m:03124**
Rathjen, Michael Explicit mathematics with the monotone fixed point principle. (English summary) **99m:03125**
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Wang, Yuchuan *see* **Bridges, Douglas; et al., 99f:03087**
Zenkin, A. A. The time-sharing principle and an analysis of a class of quasifinite plausible arguments (on the example of G. Cantor's theorem on uncountability). (Russian) **99c:03101**

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— (*with* Dudley Ward, Nicholas F.) Constructing ultraweakly continuous functionals on $\mathcal{B}(H)$. (English summary) **99a:47067**
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Horsten, Leon Provability in principle and controversial constructivistic principles. (English summary) **99f:03083**
Malykhin, V. I. A new view on old problems. (English summary) **99i:54009**
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Negri, Sara (*with* Valentini, Silvio) Tychonoff's theorem in the framework of formal topologies. **99d:54005**
Richman, Fred Flat dimension, constructivity, and the Hilbert syzygy theorem. (English summary) **99g:13021**
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Zhou, Qing[2] Subclasses of computable real valued functions. (English summary) **99m:03123**

03Gxx Algebraic logic

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Monteiro, Luiz F. (*with* Abad, Manuel; Savini, Sonia; Sewald, Julio) Finite free generating sets. (English summary) **99i:08004**
Pagli, Paolo Reflections on the algebra of logic. (Italian) (*see* **99a:00007**)
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03G05 Boolean algebras [see also 06Exx]

Alaev, P. E. Scott ranks of Boolean algebras [translation of Trudy Instituta Matematiki, Vol. 30, 3–25, Izdat. Ross. Akad. Nauk Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99i:03080**
Lisovik, L. P. On axiomatizations of Boolean algebras. (Russian. English and Ukrainian summaries) **99d:03060**
Rudeanu, Sergiu On Boolean modus ponens. (English summary) **99i:03081**

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Balcar, Bohuslav (*with* Jech, Thomas; Zapletal, Jindřich) Semi-Cohen Boolean algebras. (English summary) **99a:03050**
Goncharov, S. S. Decidable Boolean algebras of low level. (English summary) **99i:03037**
Hehner, Eric C. R. Boolean formalism and explanations. (English summary) **99a:00008**
Hsiang, Jieh (*with* Huang, Guan Shieng) Some fundamental properties of Boolean ring normal forms. (English summary) **99g:06018**
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Keremedis, Kyriakos Some equivalents of AC in algebra. II. (English summary) **99h:03028**
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Pei, Daowu On the irredundant forms of fuzzy switching functions. (English summary) **99c:94073**
Peterson, Douglas Reaping numbers and operations on Boolean algebras. **99d:03043**
Podzorov, S. Yu. Restricted completeness of extended Boolean algebras. (English summary) **99c:03058**
Rosłanowski, Andrzej (*with* Shelah, Saharon) Cardinal invariants of ultraproducts of Boolean algebras. (English summary) **99g:03033**
Sasaki, Katsumi The Lindenbaum algebra of intuitionistic propositional logic. (Japanese) (*see* **99a:03003**)
Shelah, Saharon *see* **Rosłanowski, Andrzej, 99g:03033**
Ugol'nikov, A. B. On the complexity of schemes in incomplete bases. (Russian) **99e:94056**

Vikent'ev, A. A. (*with* Lbov, G. S.) On metrizations of a Boolean algebra of sentences and the informativeness of statements of experts. (Russian)
Zapletal, Jindřich *see* **Balcar, Bohuslav; et al., 99a:03050**

03G10 Lattices and related structures [see also 06Bxx]

De Lucia, Paolo (*with* De Simone, Anna) Measures on a weakly orthocomplete OMP with a filtering sub-OMP. (English summary) **99k:03047**
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Khomich, V. I. On the embeddability of some generalizations of pseudo-Boolean algebras. (Russian) **99c:03102**
Liu, Jun (*with* Xu, Yang) Filters and structure of lattice implication algebra.
Megill, Norman D. *see* **Pavičić, Mladen, 99k:03048**
Meng, Biao Long Prime filters in lattice implication algebras. (Chinese. English and Chinese summaries)
Pavičić, Mladen (*with* Megill, Norman D.) Quantum and classical implication algebras with primitive implications. (English summary) **99k:03048**
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Items with secondary classifications in 03G10

Dezani-Ciancaglini, Mariangiola (*with* de'Liguoro, Ugo; Piperno, Adolfo) A filter model for concurrent λ-calculus. (English summary) **99f:68025**
Furusawa, Hitoshi A representation theorem for relation algebras: concepts of scalar relations and point relations. (English summary) **99m:03127**
He, Ying Yu (*with* Wang, Guo Jun[1]) The structure of $\mathscr{L}^*$-Lindenbaum algebras and a simplified system of axioms for $\mathscr{L}^*$. (Chinese. English and Chinese summaries) **99d:03020**
Höhle, Ulrich (*with* Weber, Siegfried) Uncertainty measures, realizations and entropies. (English summary) **99d:81027**
Jakubík, Ján Complete generators and maximal completions of MV-algebras. **99m:03130**
de'Liguoro, Ugo *see* **Dezani-Ciancaglini, Mariangiola; et al., 99f:68025**
Malaĭ, V. P. (*with* Ratsa, M. F.) Description of chain classically complete systems of pseudo-Boolean functions. (Russian. English and Moldavian summaries) **99f:03019**
Malinowski, Jacek On the lattice of orthomodular logics. (English summary)
Piperno, Adolfo *see* **Dezani-Ciancaglini, Mariangiola; et al., 99f:68025**
Pulmannová, Sylvia Quantum logics and convex spaces. (English summary) **99i:81018**
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Takách, G. On the sublattice-lattices of lattices. (English summary) **99a:06009**
Wagner, Frank O. Almost invariant families. (English summary) **99c:20034**
Wang, Guo Jun[1] Implicative lattices and an extension of the Stone representation theorem. (Chinese. Chinese summary)
— *see also* **He, Ying Yu, 99d:03020**
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03G12 Quantum logic [see also 81P10]

Battilotti, Giulia Embedding classical logic into basic orthologic with a primitive modality. (English summary) **99m:03126**
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Chovanec, Ferdinand (*with* Rybáriková, Eva) Ideals in D-posets of fuzzy sets. (English summary) **99h:03039**
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Pavičić, Mladen Identity rule for classical and quantum theories. (English summary) **99k:03049**
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Amira, Haroun (*with* Coecke, Bob; Stubbe, Isar) How quantales emerge by introducing induction within the operational approach. (English summary) **99k:81028**
Barwise, K. Jon (*with* Seligman, Jerry) ★ Information flow. (English summary) **99b:03003**
Bernardinello, Luca (*with* Pomello, Lucia) A category of transition systems and its relations with orthomodular posets. (English summary) **99d:06001**
Billinge, Helen A constructive formulation of Gleason's theorem. (English summary) **99c:03099**
Bruns, Gunter (*with* Harding, John) Amalgamation of ortholattices. (English summary) **99f:06014**
Calude, Cristian S. (*with* Hertling, Peter H.; Svozil, Karl) Kochen-Specker theorem: two geometric proofs. (English summary) **99i:81020**
Cattaneo, Gianpiero A unified framework for the algebra of unsharp quantum mechanics. (English summary) **99c:81009**
— (*with* Dalla Chiara, Maria Luisa; Giuntini, Roberto) Some algebraic structures for many-valued logics. (English summary) **99h:03010**
Coecke, Bob A representation of projection lattices and their states in Euclidean space. (English summary) **99c:81010**
— *see also* **Amira, Haroun; et al., 99k:81028**
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De Lucia, Paolo (*with* De Simone, Anna) Measures on a weakly orthocomplete OMP with a filtering sub-OMP. (English summary) **99k:03047**
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Ehrig, Hartmut (*with* Große-Rhode, Martin; Wolter, Uwe) Applications of category theory to the area of algebraic specification in computer science. (English summary) **99a:68122**
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Hermida, Claudio (*with* Jacobs, Bart) Structural induction and coinduction in a fibrational setting. (English summary) **99g:68133**
Isham, Chris J. Topos theory and consistent histories: the internal logic of the set of all consistent sets. (English summary) **99a:81014**
Jacobs, Bart *see* **Hermida, Claudio, 99g:68133**
Kasangian, Stefano (*with* Vigna, Sebastiano) The topos of labelled trees: a categorical semantics for SCCS. (English summary) **99f:18007**
Maietti, Maria Emilia Some aspects of the categorical semantics for the polymorphic λ-calculus. (English summary) **99a:03022**
Martí-Oliet, Narciso (*with* Meseguer, José) Inclusions and subtypes. I. First-order case. (English summary) **99d:03026a**
Meseguer, José *see* **Martí-Oliet, Narciso, 99d:03026a**
Miller, William David Quasi-Heyting algebras: a new class of lattices. (English summary) **99i:06013**
Moerdijk, Ieke Classifying spaces for toposes with enough points. (English summary) **99m:18002**
— Sets, topoi and intuitionism. (English summary) **99k:03009**
Riguet, Jacques Deducibility and exactness. (English summary) **99k:08001**
Rosický, Jiří Accessible categories, saturation and categoricity. (English summary) **99f:03049**
Scott, Philip *see* **Čubrić, Djordje; et al., 99d:03012**
Vigna, Sebastiano *see* **Kasangian, Stefano, 99f:18007**
Walicki, Michał (*with* Białasik, Marcin) Categories of relational structures. (English summary) (*see* **99f:68009**)
Wolter, Uwe *see* **Ehrig, Hartmut; et al., 99a:68122**
Worrell, James Toposes of coalgebras and hidden algebras. (English summary) **99k:18007**

03Hxx Nonstandard models [see also 03C62]

03H05 Nonstandard models in mathematics [see also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]

Benedikt, Michael A. Ultrafilters which extend measures. (English summary) **99m:03133**
Di Nasso, Mauro Linearly stratified models for the foundations of nonstandard mathematics. (English summary) **99b:03083**
Đorđević, Radosav Ž. *see* **Rašković, Miodrag, 99e:03045**
Dragoş, Petru Applications of the non-standard analysis. (Romanian summary) **99c:03107**
— A non-standard approach to the Euclidian study of plane curves. (English summary) **99k:03050**
van den Dries, Lou (*with* Macintyre, Angus; Marker, David) Logarithmic-exponential power series. (English summary) **99d:03063**
Henson, C. Ward Foundations of nonstandard analysis: a gentle introduction to nonstandard extensions. **99i:03085**
Jin, Renling Better nonstandard universes with applications. **99f:03093**
Kanovei, Vladimir (*with* Reeken, Michael) Mathematics in a nonstandard world. I. (English summary) **99h:03044**
— (*with* Reeken, Michael) Mathematics in a nonstandard world. II. **99h:03045**
Li, Chun Wen A new number system and its calculus. III. Differentiation and integration. (Chinese. English and Chinese summaries)
Macintyre, Angus *see* **van den Dries, Lou; et al., 99d:03063**
Marker, David *see* **van den Dries, Lou; et al., 99d:03063**
Péraire, Yves Formules absolues dans la théorie relative des ensembles internes. (English and French summaries) [Absolute formulas in the relative theory of internal sets] **99f:03094**
Rašković, Miodrag (*with* Đorđević, Radosav Ž.) ★ Probability quantifiers and operators. **99e:03045**
Reeken, Michael *see* **Kanovei, Vladimir, 99h:03044** *and* **99h:03045**
Schilling, Kenneth Vanishing Borel sets. **99i:03086**
Suárez Fernández, Manuel A new approach to nonstandard analysis. (English summary) **99g:03069**

Items with secondary classifications in 03H05

Balan, A. P. M. *see* **da Costa, Newton C. A.; et al., 99i:26031**
Baratella, Stefano (*with* Ng, Siu-Ah) Fixed points in the nonstandard hull of a Banach space. **99f:47075**
Bell, John L. ★ A primer of infinitesimal analysis. (English summary) **99h:00002**
Benoît, Eric Applications of nonstandard analysis in ordinary differential equations. **99i:34075**

Borde, Pascal Perturbation infinitésimale d'un opérateur compact. [Infinitesimal perturbation of a compact operator] **99b:47108**
— Spectre d'un opérateur S-compact. [Spectrum of an S-compact operator] **99b:47109**
— (*with* Péraire, Yves) Un modèle du calcul de Dirac dans la théorie relative des ensembles. (English and French summaries) [A model of the Dirac calculus in relative set theory] **99h:46066**
da Costa, Newton C. A. (*with* Kouneiher, J.; Balan, A. P. M.) Continu et infinis: introduction à l'analyse pré- et antéréelle. (English summary) [The continuum and the infinite: introduction to pre- and ante-real analysis] **99i:26031**
Cui, Shang Wei Extension of asymptotic stability of Barbashin equations to the hyperreal domain. (Chinese. English and Chinese summaries)
Cutland, Nigel J. Nonstandard real analysis. **99b:26043**
— (*with* Zimmer, G. Beate) A new proof of the Banach-Stone theorem. (English summary) **99a:46042**
Dauben, Joseph W. Marx, Mao and mathematics: the politics of infinitesimals. (English summary) **99h:01029**
Diener, Marc Enseigner l'analyse avec des ordres de grandeur. [Teaching analysis using orders of magnitude] **99k:00012**
Fruchard, Augustin Canards discrets. [Discrete canards] **99a:58055**
Gautheron, Véronique Enseigner les débuts de l'analyse en utilisant des infinitésimaux. [Teaching introductory analysis using infinitesimals] **99k:00013**
Goldblatt, Robert Enlargements of functional algebras for the lambda calculus. (English summary) **99b:03027**
González, Manuel (*with* Martínez-Abejón, Antonio) Ultrapowers and semi-Fredholm operators. (Italian summary) **99e:47019**
(Grant, Hardy) *see* **Laugwitz, Detlef, 99c:01016**
Hsu, Leetsch Charles (*with* Wang, Jun[1]) Some Möbius-type functions and inversions constructed via difference operators. (English summary) **99g:11010**
Jin, Renling Type two cuts, bad cuts and very bad cuts. (English summary) **99j:03057**
Kakiuchi, Nobuhiko (*with* Tchizawa, Kiyoyuki) On a duck solution and delay in the FitzHugh-Nagumo equation. (English summary) **99c:34074**
— (*with* Tchizawa, Kiyoyuki) On another type of ducks in the FitzHugh-Nagumo equation. (English summary) **99h:34011**
Kalina, Martin Derivatives and differentials within nonstandard models. (English summary) **99e:26024**
Kanovei, Vladimir (*with* Reeken, Michael) Elementary extensions of external classes in a nonstandard universe. (English summary) **99j:03047**
Keisler, H. Jerome Stochastic differential equations with extra properties. **99m:60079**
Khan, M. Ali (*with* Sun, Yeneng) The capital-asset-pricing model and arbitrage pricing theory: a unification. (English summary) **99i:90017**
Kouneiher, J. *see* **da Costa, Newton C. A.; et al., 99i:26031**
Landers, D. (*with* Rogge, L.) Nonstandard characterization of convergence in law for $D[0, 1]$-valued random variables. (English summary) **99b:60011**
Laugwitz, Detlef On the historical developement of infinitesimal mathematics. II. The conceptual thinking of Cauchy. **99c:01016**
Lindstrøm, Tom Internal martingales and stochastic integration. **99h:60091**
Liu, Pu Yin Nonstandard analysis of test function spaces. (Chinese. English and Chinese summaries) **99f:46053**
Lobry, Claude (*with* Sari, Tewfik; Touhami, Sefiane) On Tykhonov's theorem for convergence of solutions of slow and fast systems. (English summary) **99g:34108**
Lyantse, V. È. (*with* Yavorskii, Yu. M.) A nonstandard difference Sturm-Liouville operator. (English summary) **99g:47074**
Martínez-Abejón, Antonio *see* **González, Manuel, 99e:47019**
Medvedev, F. A. Nonstandard analysis and the history of classical analysis. **99g:01003**
Molchanov, Vladimir A. Nonstandard congruences and lattices of pseudovarieties. (English summary) **99a:08005**
— Nonstandard convergences in spaces of partial mappings. (Russian) **99m:54033**
Ng, Siu-Ah *see* **Baratella, Stefano, 99f:47075**
Oberguggenberger, Michael (*with* Todorov, Todor Dimitrov[1]) An embedding of Schwartz distributions in the algebra of asymptotic functions. (English summary) **99m:46097**
Péraire, Yves Proximités et topologies. [Proximities and topologies] **99c:54040**
— *see also* **Borde, Pascal, 99h:46066**
Pétry, André Enseigner l'analyse sur base des méthodes non standard, deux aspects: microscope et ensembles internes. (English summary) [Two aspects of teaching analysis using the methods of nonstandard analysis: the microscope and internal sets] **99k:00014**
Reeken, Michael *see* **Kanovei, Vladimir, 99j:03047**
Rogge, L. *see* **Landers, D., 99b:60011**
Ross, David A. Loeb measure and probability. **99d:28042**
Rubio, J. E. The global optimization of variational problems with discontinuous solutions. (English summary) **99b:49002**
San Luis Fernández, Ana María ★ Estabilidad transversal de gérmenes representables infinitesimalmente. (Spanish) [Transverse stability of infinitesimally represented germs] **99b:58008**
Sari, Tewfik *see* **Lobry, Claude; et al., 99g:34108**
Schlesinger, Karl-Georg ★ Generalized manifolds. (English summary) **99k:58004**
(Shenitzer, Abe) *see* **Laugwitz, Detlef, 99c:01016** *and* **Medvedev, F. A., 99g:01003**
Sun, Yeneng A theory of hyperfinite processes: the complete removal of individual uncertainty via exact LLN. (English summary) **99j:28020**
— *see also* **Khan, M. Ali, 99i:90017**
Tanaka, Kazuyuki[1] Non-standard analysis in WKL_0. (English summary) **99c:03096**
Tchizawa, Kiyoyuki *see* **Kakiuchi, Nobuhiko, 99c:34074** *and* **99h:34011**
Todorov, Todor Dimitrov[1] *see* **Oberguggenberger, Michael, 99m:46097**
Touhami, Sefiane *see* **Lobry, Claude; et al., 99g:34108**
Tzouvaras, Athanassios Modeling vagueness by nonstandardness. (English summary) **99j:03049**
Veksler, A. I. Finitely extendable functionals on vector lattices. (English summary) **99k:46011**
Wang, Jun[1] *see* **Hsu, Leetsch Charles, 99g:11010**
Yavorskii, Yu. M. *see* **Lyantse, V. È., 99g:47074**
Zhang, Fu Tai Two kinds of convergence in an internal hyperreal metric space. (Chinese. English and Chinese summaries)
Zimmer, G. Beate An extension of the Bochner integral generalizing the Loeb-Osswald integral. **99a:28020**
— *see also* **Cutland, Nigel J., 99a:46042**

Items listed otherwise than by author

Álxebra *see* **San Luis Fernández, Ana María, 99b:58008**

03H10 Other applications of nonstandard models (economics, physics, etc.)

Items with secondary classifications in 03H10

Benedikt, Michael A. (*with* Dong, Guozhu; Libkin, Leonid; Wong, Limsoon) Relational expressive power of constraint query languages. (English summary) **99e:68028**
Capiński, Marek A nonstandard approach to hydromechanics: Navier-Stokes equations. **99e:76030**
Dong, Guozhu *see* **Benedikt, Michael A.; et al., 99e:68028**
Kakiuchi, Nobuhiko (*with* Tchizawa, Kiyoyuki) On a duck solution and delay in the FitzHugh-Nagumo equation. (English summary) **99c:34074**
Khan, M. Ali (*with* Sun, Yeneng) The capital-asset-pricing model and arbitrage pricing theory: a unification. (English summary) **99i:90017**
Kobayashi, Tsunehiro Physical equivalence based on observations and equivalence in terms of free ultra-filters in quantum mechanics on non-standard space. (English summary) **99h:81012**
Kopp, P. Ekkehard Hyperfinite mathematical finance. **99m:90029**
Libkin, Leonid *see* **Benedikt, Michael A.; et al., 99e:68028**
Sun, Yeneng *see* **Khan, M. Ali, 99i:90017**
Tchizawa, Kiyoyuki *see* **Kakiuchi, Nobuhiko, 99c:34074**
Weydert, Emil Defaults and infinitesimals defeasible inference by non-Archimedean entropy maximization. (English summary) **99b:68177**
Wong, Limsoon *see* **Benedikt, Michael A.; et al., 99e:68028**
Yamashita, Hideyasu Hyperfinite-dimensional representations of canonical commutation relation. (English summary) **99c:81106**

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Jin, Renling Type two cuts, bad cuts and very bad cu· (English summary) **99j:03057**

Items with secondary classifications in 03H15

Bamber, Nicholas (*with* Kotlarski, Henryk) On interstices of countable arithmetically saturated models of Peano arithmetic. (English summary) **99a:03040**
Bojadžiev, D. (*with* Gams, Matjaž) Addendum to: "Sloman's view of Gödel's sentence" [Artificial Intelligence **74** (1995), no. 2, 389–393; MR 96c:03008] by Bojadžiev. (English summary) **99a:03006**
Gams, Matjaž *see* **Bojadžiev, D., 99a:03006**
Johannsen, Jan A model-theoretic property of sharply bounded formulae, with some applications. (English summary) **99m:03118**
Kotlarski, Henryk *see* **Bamber, Nicholas, 99a:03040**

04–XX Set theory [see also 03Exx]

04–01 Instructional exposition (textbooks, tutorial papers, etc.)

Hernández Hernández, Fernando ★ Teoría de conjuntos. (Spanish. Spanish summary) [Set theory] **99e:04001**

Items with secondary classifications in 04–01

Just, Winfried (*with* Weese, Martin) ★ Discovering modern set theory. II. (English summary) **99b:03001**
Weese, Martin *see* **Just, Winfried**, **99b:03001**

04–02 Research exposition (monographs, survey articles)

Ciesielski, Krzysztof[2] ★ Set theory for the working mathematician. (English summary) **99c:04001**

Items with secondary classifications in 04–02

Jech, Thomas ★ Set theory. (English summary) **99b:03061**
Rasiowa, Helena ★ Wstęp do matematyki współczesnej. (Polish. Polish summary) [Introduction to modern mathematics] **99g:03001**

04–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 04–03

Ferreirós Domínguez, José The set-theoretic approach in mathematics. (Spanish) **99m:01020**
Franchella, Miriam On the origins of Dénes König's infinity lemma. **99e:05001**
(Gel'fand, Izrail' Moiseevich) *see* **Kantorovich, L. V.**, **99f:01030**
Kantorovich, L. V. ★ Selected works. Part I. (English summary) **99f:01030**
(König, Dénes) *see* **Franchella, Miriam**, **99e:05001**
(Kutateladze, S. S.) *see* **Kantorovich, L. V.**, **99f:01030**
Larson, Jean A. A picaresque approach to set theory genealogy. (English summary) **99d:01031**
Murata, Tamotsu The philosophical side of Cantor's set theory—from the recollections of the late Professor Torataro Shimomura. (Japanese) (*see* **99d:01002**)
Sánchez Vásquez, Alejandra Romanticism and mathematics. (Spanish. English and Spanish summaries) **99i:01018**
(Shimomura, Torataro) *see* **Murata, Tamotsu**, (**99d:01002**)
(Sosinskiĭ, A. B.) *see* **Kantorovich, L. V.**, **99f:01030**

Items listed otherwise than by author

Biography:
Kantorovich, Leonid Vital'evich *see* **Kantorovich, L. V.**, **99f:01030**
Collected Works:
Kantorovich, Leonid Vital'evich *see* **Kantorovich, L. V.**, **99f:01030**

04–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 04–06

(Bouchon-Meunier, Bernadette) *see* **Aggregation and fusion of imperfect information**, **99e:04005**
(Orłowska, Ewa) *see* **Incomplete information: rough set analysis**, **99d:04012**

Items listed otherwise than by author

Aggregation and fusion of imperfect information ★ Aggregation and fusion of imperfect information. **99e:04005**
Incomplete information: rough set analysis ★ Incomplete information: rough set analysis. **99d:04012**

04A03 Set algebra

Marcone, Alberto (*with* Parlamento, Franco; Policriti, Alberto) Finite families with few symmetric differences. (English summary) **99f:04001**
Parlamento, Franco *see* **Marcone, Alberto; et al.**, **99f:04001**
Policriti, Alberto *see* **Marcone, Alberto; et al.**, **99f:04001**

04A05 Relations, functions [see also 08A02]

Amor Montaño, José Alfredo Induction and recursion. (Spanish. Spanish summary)
Boudabbous, Youssef Sur la détermination d'une relation binaire à partir d'informations locales. (English summary) [Determining a binary relation from local information] **99g:04001**
Caballero, Rafael *see* **Soto, Fernando; et al.**, **99d:04001**
Cristescu, Gabriela Behaviours. (English and Romanian summaries) (*see* **99i:00027**)
Dammak, Jamel La dualité dans la demi-reconstruction des relations binaires finies. (English and French summaries) [Duality in the half-reconstruction of finite binary relations] **99h:04001**
Došen, Kosta Functions redefined. **99h:04002**
Mala, József (*with* Száz, Árpád) Modifications of relators. **99a:04001**
Osejo, Edgar *see* **Soto, Fernando; et al.**, **99d:04001**
Soto, Fernando (*with* Osejo, Edgar; Caballero, Rafael) Peirce's enumeration of the rationals. (Spanish. English and Spanish summaries) **99d:04001**
Száz, Árpád *see* **Mala, József**, **99a:04001**
Szyszkowski, Marcin On axial maps of the direct product of finite sets. **99a:04002**
Yan, Catherine Huafei Distributive laws for commuting equivalence relations. (English summary) **99i:04001**
Yang, Zhong Qiang (*with* Zhou, Xiaoe) A sufficient and necessary condition for an OWA bag mapping having the self-identity. (English summary) **99a:04003**
Zhou, Xiaoe *see* **Yang, Zhong Qiang**, **99a:04003**

Items with secondary classifications in 04A05

Feijs, L. M. G. (*with* van Ommering, R. C.) Relation partition algebra—mathematical aspects of uses and part-of relations. (English summary) **99m:68025**
Li, Bo Yu (*with* Wang, Li Zhen) Fixed point theorems for ordered sets. (Chinese. English and Chinese summaries) **99k:06002**
van Ommering, R. C. *see* **Feijs, L. M. G.**, **99m:68025**
Reischer, Corina (*with* Simovici, Dan A.; Stojmenović, Ivan) An algebraic approach to entropy. (English summary) **99e:94018**
Rudeanu, Sergiu On general and reproductive solutions of finite equations. (English summary) **99m:08013**
Simovici, Dan A. *see* **Reischer, Corina; et al.**, **99e:94018**
Stojmenović, Ivan *see* **Reischer, Corina; et al.**, **99e:94018**
Wang, Li Zhen *see* **Li, Bo Yu**, **99k:06002**
Yan, Catherine Huafei Commuting quasi-order relations. (English summary) **99g:06004**

04A10 Ordinal and cardinal numbers; generalizations [see also 03E10]

Hinnion, Roland Ramifiable directed sets. (English summary) **99g:04002**
Lemire, Denis Décompositions successives de la forme normale d'un surréel et généralisation des ε-nombres. (English and French summaries) [Successive decompositions of the normal form of a surreal number and generalization of ε-numbers] **99b:04001**

Items with secondary classifications in 04A10

Lurie, Jacob The effective content of surreal algebra. (English summary) **99m:03124**
Steel, John R. ★ The core model iterability problem. **99k:03043**

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 26A21, 28A05, 54H05]

Pawlikowski, Janusz Strongly meager sets and subsets of the plane. (English summary) **99c:04002**
Srivastava, S. M. ★ A course on Borel sets. (English summary) **99d:04002**

Items with secondary classifications in 04A15

Bhaskara Rao, K. P. S. *see* **Shortt, Rae Michael**, **99d:28004**
Chaatit, F. On simple DBSC functions. (English summary) **99d:46029**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) Ideal resolvability. (English summary) (*see* **99a:54002**)
Ganster, Maximilian *see* **Dontchev, Julian; et al.**, (**99a:54002**)
Hjorth, Greg Sharper changes in topologies. (English summary) **99b:54059**
Kanovei, Vladimir Non-Glimm-Effros equivalence relations at second projective level. (English summary) **99j:03040**
— When a partial Borel order is linearizable. (English summary) **99i:03057**
Matheron, Etienne How to recognize a true Σ^0_3 set. (English summary) **99m:43005**
Maurey, Bernard (*with* Tacchi, Jean-Pierre) À propos du théorème de densité de Lebesgue. (English summary) [On Lebesgue's density theorem] **99f:26002**
Rose, David Alon *see* **Dontchev, Julian; et al.**, (**99a:54002**)
Shortt, Rae Michael (*with* Bhaskara Rao, K. P. S.) Borel spaces. II. **99d:28004**
Solecki, Sławomir Decomposing Borel sets and functions and the structure of Baire class 1 functions. (English summary) **99h:26010**
Steel, John R. ★ The core model iterability problem. **99k:03043**
Tacchi, Jean-Pierre *see* **Maurey, Bernard**, **99f:26002**
Tsarpalias, A. A note on the Ramsey property. (English summary) **99c:04005**

04A20 Combinatorial set theory [see also 03E05, 05A05]; filters

Ahlswede, Rudolf (*with* Cai, Ning) Shadows and isoperimetry under the sequence-subsequence relation. **99d:04003**
Balcerzak, Marek (*with* Plewik, Szymon) Property (P) and game ideals. (English summary) **99a:04004**
Cai, Ning *see* **Ahlswede, Rudolf**, **99d:04003**
Ciesielski, Krzysztof[2] (*with* Natkaniec, Tomasz) Algebraic properties of the class of Sierpiński-Zygmund functions. (English summary) **99c:04003**
Erdős, Paul[1] (*with* Hajnal, András; Pach, János) On a metric generalization of Ramsey's theorem. (English summary) **99c:04004**
Hajnal, András *see* **Erdős, Paul**[1]**; et al.**, **99c:04004**
Johnson, Robert T. (*with* Vaughan, Theresa P.) On union-closed families. I. (English summary) **99h:04003**
Just, Winfried (*with* Vojtáš, Peter) On matrix rapid filters. (English summary) **99a:04005**
Kowalsky, Hans-Joachim Stufenfunktion für ultrafilter. (German summary) [Level function for ultrafilters] **99m:04001**
Laflamme, Claude (*with* Zhu, Jian Ping[1]) The Rudin-Blass ordering of ultrafilters. (English summary) **99m:04002**
Natkaniec, Tomasz *see* **Ciesielski, Krzysztof**[2], **99c:04003**
Pach, János *see* **Erdős, Paul**[1]**; et al.**, **99c:04004**
Plewik, Szymon *see* **Balcerzak, Marek**, **99a:04004**
Tsarpalias, A. A note on the Ramsey property. (English summary) **99c:04005**
Vaughan, Theresa P. *see* **Johnson, Robert T.**, **99h:04003**
Vojtáš, Peter *see* **Just, Winfried**, **99a:04005**
Zhu, Jian Ping[1] *see* **Laflamme, Claude**, **99m:04002**

Items with secondary classifications in 04A20

Bartoszyński, Tomek Remarks on the intersection of filters. (English summary) **99i:03054**

Bergelson, Vitaly (*with* Hindman, Neil; Leader, Imre) Additive and multiplicative Ramsey theory in the reals and the rationals. (English summary) **99m:05159**
Džamonja, Mirna A note on the splitting property in strongly dense posets of size $\aleph_0$. (English and Serbo-Croatian summaries)
Franchella, Miriam On the origins of Dénes König's infinity lemma. **99e:05001**
Goldstern, Martin (*with* Kojman, Menachem) Rules and reals. (English summary) **99h:03029**
Hindman, Neil *see* **Bergelson, Vitaly; et al., 99m:05159**
Just, Winfried (*with* Weese, Martin) ★ Discovering modern set theory. II. (English summary) **99b:03001**
Kharazishvili, A. B. On a problem of the uniformization of sets. (Russian. English and Georgian summaries)
Kojman, Menachem *see* **Goldstern, Martin, 99h:03029**
Kolman, Oren The Baer-Specker group. **99e:20068**
Komjáth, Péter Distinguishing two partition properties of ω_1. (English summary) **99b:03063**
(König, Dénes) *see* **Franchella, Miriam, 99e:05001**
Leader, Imre *see* **Bergelson, Vitaly; et al., 99m:05159**
Marciszewski, Witold P-filters and hereditary Baire function spaces. (English summary) **99g:54009**
Michalewski, Henryk Game-theoretic approach to the hereditary Baire property of $C_p(\mathbf{N}_F)$. (English summary) **99k:54008**
Pawlikowski, Janusz The fundamental group of a compact metric space. (English summary) **99a:55009**
Schäffler, Meike Partition regular systems of linear inequalities. **99i:05199**
Scheepers, Marion Open covers and partition relations. (English summary) **99c:54033**
Shelah, Saharon σ-entangled linear orders and narrowness of products of Boolean algebras. (English summary) **99e:03032**
— A polarized partition relation and failure of GCH at singular strong limit. (English summary) **99b:03064**
Weese, Martin *see* **Just, Winfried, 99b:03001**
Wojciechowski, Jerzy A criterion for the existence of transversals of set systems. (English summary) **99c:05193**

04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [see also 03E25]

Items with secondary classifications in 04A25

Bentley, H. L. (*with* Herrlich, Horst) Countable choice and pseudometric spaces. (English summary) **99k:03041**
De la Cruz, Omar (*with* Di Prisco, Carlos Augusto) Weak forms of the axiom of choice and partitions of infinite sets. (English summary) **99f:03068**
Di Prisco, Carlos Augusto *see* **De la Cruz, Omar, 99f:03068**
Herrlich, Horst (*with* Steprāns, Juris) Maximal filters, continuity and choice principles. (English summary) **99m:03097**
— *see also* **Bentley, H. L., 99k:03041**
Howard, Paul E. (*with* Rubin, Jean E.) ★ Consequences of the axiom of choice. (English summary) **99h:03026**
Juhász, István Cardinal functions on continuous images. (English summary) **99a:54005**
Keremedis, Kyriakos Some equivalents of AC in algebra. II. (English summary) **99h:03028**
— Extending independent sets to bases and the axiom of choice. (English summary) **99c:03071**
Rubin, Jean E. *see* **Howard, Paul E., 99h:03026**
Steprāns, Juris *see* **Herrlich, Horst, 99m:03097**

04A30 Continuum hypothesis, generalized continuum hypothesis [see also 03E50, 54A25]

Herrlich, Horst (*with* Steprāns, Juris) Decomposing Euclidean space with a small number of smooth sets. (English summary) **99f:04002**

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Balcar, Bohuslav (*with* Jech, Thomas; Zapletal, Jindřich) Semi-Cohen Boolean algebras. (English summary) **99a:03050**
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04A72 Fuzzy sets, fuzzy relations [see also 03E72, 94D05] {For fuzzy versions, see specific sections.}

Banerjee, Mohua (*with* Chakraborty, Mihir K.) Rough logics: a survey with further directions. (English summary) (*see* **99d:04012**)
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Bodjanova, Slavka Comparison of fuzzy partitions based on their α-cuts. (English summary) **99m:04003**
Bonikowski, Zbigniew (*with* Bryniarski, Edward; Wybraniec-Skardowska, Urszula) Extensions and intentions in the rough set theory. (English summary) **99f:04003**
Bouchon-Meunier, Bernadette (*with* Kosheleva, Olga M.; Kreinovich, Vladik; Nguyen, Hung T.) Fuzzy numbers are the only fuzzy sets that keep invertible operations invertible. (English summary) **99a:04006**
— *see also* **Aggregation and fusion of imperfect information, 99e:04005**
Bourke, Mary M. (*with* Fisher, D. Grant) Solution algorithms for fuzzy relational equations with max-product composition. (English summary) **99j:04001**
Bryniarski, Edward *see* **Bonikowski, Zbigniew; et al., 99f:04003**
Calvo, Tomasa *see* **Fodor, János C., (99e:04005)**
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Harrison, John Watkins (*with* Brennan, Thomas; Gapinski, Steven) The Gergonne p-pile problem and the dynamics of the function $x \mapsto \lfloor (x+r)/p \rfloor$. (English summary) **99m:05001**
Horibata, Takatoshi *see* **Midorikawa, Shoichi[2]; et al.**
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Klain, Daniel A. Kinematic formulas for finite lattices. (English summary) **99c:05005**
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Levitskaya, A. A. A combinatorial problem in the class of permutations over the residue ring Z_n modulo odd n. (Russian. English, Russian and Ukrainian summaries) **99e:05005**
McKee, Terry A. Graph structure for inclusion-exclusion equalities. (English summary) **99j:05002**

Midorikawa, Shoichi[2] (*with* Tomoda, Toshiaki; Horibata, Takatoshi; Muraoka, Mitsuo) Recurrence relations for counting the number of permutations with forbidden successive numbers. (Japanese. English and Japanese summaries)
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Chao, Chern-Ching A note on applications of the martingale central limit theorem to random permutations. (English summary) **99e:60057**
Dulucq, S. (*with* Gire, S.; Guibert, O.) A combinatorial proof of J. West's conjecture. (English summary) **99f:05053**
Feng, Hong (*with* Wang, Jun[1]) Minimum cutsets for an element of a subspace lattice over a finite vector space. (English summary) **99i:06002**
Foata, Dominique (*with* Han, Guo-Niu) Transformations on words. (English summary) **99g:68158**
Friedman, Joel (*with* Joux, Antoine; Roichman, Yuval; Stern, Jacques; Tillich, Jean-Pierre) The action of a few permutations on r-tuples is quickly transitive. (English summary) **99e:05106**
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Gao, Shu Hong (*with* Novick, Beth; Qiu, Ke) From Hall's matching theorem to optimal routing on hypercubes. (English summary) **99j:68106**
Gao, Weidong On the number of subsequences with given sum. (English summary) **99j:20022**
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Lichtner, Jonathan Iterating an α-ary Gray code. (English summary) **99j:94023**
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05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65, 33Cxx]

Aigner, Martin Motzkin numbers. (English summary) **99m:05003**
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Benaoum, H. B. h analogue of Newton's binomial formula. (English summary) **99m:05004a**
— (q, h)-analogue of Newton's binomial formula. Addendum to: "h-analogue of Newton's binomial formula". (English summary) **99m:05004b**
Bera, Soumendra A peculiar identity from the usual expansion of $(a-1)^r$. (English summary) **99a:05003**
Bondarenko, B. A. (*with* Karachik, V. V.; Tulyaganov, R. B.) Distribution of Eulerian and Stirling numbers mod p in arithmetical triangles. (Russian and Uzbek summaries) **99c:05006**
Brunetti, S. *see* **Barcucci, E.; et al., 99f:05001**
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Konvalina, John Generalized binomial coefficients and the subset-subspace problem. (English summary) **99g:05002**
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Roos, Cornelis (*with* Snijders, A.; van Zanten, A. J.) Cyclonomial number systems and the ranking of lexicographically ordered constant-sum codes. (English summary) **99d:05002**
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Solaeche Galera, María Cristina The system for tabulating binomial coefficients, Pascal's triangle: a numerical model rips the loom of time. (Spanish. English and Spanish summaries)
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— A kind of binomial identity. (English summary) **99k:05006**

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Andrews, George E. (*with* Stanton, Dennis W.) Determinants in plane partition enumeration. (English summary) **99f:05002**
Bera, Soumendra Some interesting results on a new combinatorial arithmetic function. (English summary) **99g:11024**
Berend, Daniel (*with* Harmse, Jørgen E.) On some arithmetical properties of middle binomial coefficients. **99a:11018**
Calkin, Neil J. Factors of sums of powers of binomial coefficients. **99i:11011**
Cigler, J. Operatormethoden für q-Identitäten. VI. Geordnete Wurzelbäume und q-Catalan-Zahlen. [Operator methods for q-identities. VI. Ordered rooted trees and q-Catalan numbers] **99g:05005**
Dulucq, S. (*with* Guibert, O.) Baxter permutations. (English and French summaries) **99c:05004**
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Grimaldi, Ralph P. The Catalan numbers as compositions of squares. **99m:11016**
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He, Matthew X. (*with* Ricci, Paolo Emilio; Simon, David S.) Numerical results on the zeros of generalized Fibonacci polynomials. (English summary) **99j:33013**
Higgins, Peter M. Combinatorial aspects of semigroups of order-preserving and decreasing functions. (English summary) (*see* **99f:20003**)
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Hsu, Leetsch Charles (*with* Yu, Hongquan) On mutual representations of symmetrically weighted Stirling-type pairs with applications. (English summary) **99b:11014**
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Karapetyan, A. O. Some identities for binomial coefficients. (Russian) **99m:05012**
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Krattenthaler, Christian An alternative evaluation of the Andrews-Burge determinant. (English summary) **99g:05011**
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— On pre-Catalan Catalan numbers: Kotelnikow (1766). Addenda: "On the trail of the Catalan sequence" [Math. Today (Southend-on-Sea) **34** (1998), no. 4, 114–117; MR 99f:01017] by Larcombe and P. D. C. Wilson.
Lassalle, Michel Quelques conjectures combinatoires relatives à la formule classique de Chu-Vandermonde. [Some combinatorial conjectures associated with the classical Chu-Vandermonde formula] **99i:05019**
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Cellini, Paola Cyclic Eulerian elements. (English summary) **99c:05009**
Chu, Wenchang Generating functions and combinatorial identities. (English summary) **99i:05007**
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— (*with* Prohaska, M.) A remarkable formula for counting nonintersecting lattice paths in a ladder with respect to turns. (English summary) **99e:05009**
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Shastri, Aditya Number of linear extensions of symmetric KLYM posets. **99h:05005**
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Stoll, Michael Bounds for the length of recurrence relations for convolutions of P-recursive sequences. (English summary) **99f:05007**
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— (*with* Eriksson, Kimmo) Lecture hall partitions. II. (English summary) **99c:05016**
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— (*with* Golinelli, O.; Guitter, E.) Meander, folding, and arch statistics. (English summary) **99f:82029**
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Guitter, E. *see* **Di Francesco, Philippe; et al., 99f:82028** *and* **99f:82029**
Haglund, James On the nonnegativity of the coefficients of some polynomials occurring in the theory of cubical spheres. (English and French summaries) **99e:05004**
Ismail, Mourad E. H. (*with* Kim, Dongsu; Stanton, Dennis W.) Lattice paths and positive trigonometric sums. (English summary) **99k:42007**
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Juhász, Arye (*with* Leibman, Alexander) A note on the combinatorics of multiplication in groups. (English summary) **99f:20069**
Kim, Dongsu *see* **Ismail, Mourad E. H.; et al., 99k:42007**
Klaška, Jiří History of the number of finite posets. (English summary) **99k:06001**
Knopfmacher, Arnold (*with* Mays, M. E.) The sum of distinct parts in compositions and partitions. (English summary) **99i:05016**
Kula, Mieczysław Counting Witt rings. (English summary) **99m:11050**
Leibman, Alexander *see* **Juhász, Arye, 99f:20069**
Leroux, Pierre (*with* Rassart, E.; Robitaille, A.) Enumeration of symmetry classes of convex polyominoes in the square lattice. (English and French summaries) **99g:05050**
Loeb, Daniel E. The world of generating functions and umbral calculus. (*see* **99b:01027**)
— *see also* **Di Bucchianico, Alessandro, 99e:62075**
Loyer, Pierre *see* **Solé, Patrick, 99c:94059**
Marcus, Michel *see* **Cori, Robert, 99i:05099**
Marenich, E. E. Enumeration of solutions of some equations in finite lattices. (Russian. Russian summary) **99c:06006**
Mays, M. E. *see* **Knopfmacher, Arnold, 99i:05016**
Melançon, Guy *see* **Jacquet, Hélène, 99c:68204**
Merlini, Donatella *see* **Corsani, Cristiano; et al., 99c:05017**
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Novelli, Jean-Christophe (*with* Pak, I. M.; Stoyanovskiĭ, A. V.) A direct bijective proof of the hook-length formula. (English summary) **99h:05123**
Pak, I. M. *see* **Novelli, Jean-Christophe; et al., 99h:05123**
Pla, Juan The sum of inverses of binomial coefficients revisited. **99b:11013**
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Randrianarivony, Arthur Moments des polynômes orthogonaux unitaires de Sheffer généralisés et spécialisations. (English summary) [Moments of generalized unitary orthogonal Sheffer polynomials and specializations] **99g:05190**
Rassart, E. *see* **Leroux, Pierre; et al., 99g:05050**
Robitaille, A. *see* **Leroux, Pierre; et al., 99g:05050**
Ruskey, Frank *see* **Proskurowski, Andrzej; et al., 99b:68100**
Sagan, Bruce E. Unimodality and the reflection principle. (English summary) **99g:05013**
— *see also* **Blass, Andreas, 99c:05204**
Savage, Carla D. *see* **Corteel, Sylvie; et al., 99d:11111**
Schirmacher, Ernesto Log-concavity and the exponential formula. (English summary) **99k:05018**
Schulze, Volker *see* **Aigner, Martin, 99m:11022**
Schützenberger, Marcel-Paul Pour le monoïde plaxique. (English and French summaries) [A vote for the plactic monoid] **99f:68166**
Shevelev, V. S. Development of the rook technique for computing cyclic indicators of (0, 1)-matrices. (Russian. English and Russian summaries) **99f:15024**
Smith, Malcolm James *see* **Proskurowski, Andrzej; et al., 99b:68100**
Solé, Patrick (*with* Loyer, Pierre) U_n lattices, construction B, and AGM iterations. (English summary) **99c:94059**
Sprugnoli, Renzo *see* **Corsani, Cristiano; et al., 99c:05017**
Stanton, Dennis W. *see* **Ismail, Mourad E. H.; et al., 99k:42007**
Stembridge, John R. The enumeration of fully commutative elements of Coxeter groups. (English summary) **99b:20070**
Stoyanovskiĭ, A. V. *see* **Novelli, Jean-Christophe; et al., 99h:05123**
Stoye, Jens *see* **Dress, Andreas W. M.; et al., 99b:92030**
Sturmfels, Bernd *see* **Diaconis, Persi W.; et al., 99i:13035**
Temperley, H. N. V. The enumeration of self-avoiding walks and domains on a lattice. **99h:82042**
Torre, Amalia *see* **Dattoli, G., 99d:78021**
Umar, Abdullahi Enumeration of certain finite semigroups of transformations. (English summary) **99f:20101**
Voinov, V. G. (*with* Nikulin, Mikhail S.) Corrigendum: "Generating functions, problems of additive number theory, and some statistical applications" [Rev. Roumaine Math. Pures Appl. **40** (1995), no. 2, 107–147; MR 97e:11030]. **Wieland, Thomas** Combinatorics of combinatorial chemistry. (English summary) **99c:92063**
Wilf, Herbert S. *see* **Corteel, Sylvie; et al., 99d:11111**
Winkel, Rudolf Sequences of symmetric polynomials and combinatorial properties of tableaux. (English summary) **99b:05144**
Yu, Hongquan A generalization of Stirling numbers. **99g:11025**
Zeilberger, Doron *see* **Corteel, Sylvie; et al., 99d:11111** *and* **Foata, Dominique, 99h:11019**

05A16 Asymptotic enumeration

Beckner, William (*with* Regev, Amitai) Asymptotic estimates using probability. (English summary) **99j:05011**
Calkin, Neil J. (*with* Wilf, Herbert S.) The number of independent sets in a grid graph. (English summary) **99e:05010**
Dančík, Vlado Common subsequences and supersequences and their expected length. (English summary) **99m:05007**
Drmota, Michael Systems of functional equations. (English summary) **99e:05011**
Hadjicostas, Petros The asymptotic proportion of subdivisions of a 2×2 table that result in Simpson's paradox. (English summary) **99m:05008**
Hwang, Hsien-Kuei A Poisson ∗ geometric convolution law for the number of components in unlabelled combinatorial structures. (English summary) **99e:05012**
Inoue, Makoto² *see* **Tsuruoka, Nobuhiko, 99k:05011**
Müller, Thomas W. Finite group actions and asymptotic expansion of $e^{P(z)}$. (English summary) **99m:05009**
Pavlov, A. I. On two classes of permutations with number-theoretic constraints on cycle lengths. (Russian. Russian summary) **99i:05013**
Regev, Amitai Asymptotics of the number of k-words with an l-descent. (English summary) **99k:05010**
— *see also* **Beckner, William, 99j:05011**
Skau, Ivar H. A note on the asymptotic number of Latin rectangles. (English summary) **99h:05006**
Stark, Dudley (*with* Wormald, Nicholas C.) Asymptotic enumeration of convex polygons. (English summary) **99i:05014**
Tsuruoka, Nobuhiko (*with* Inoue, Makoto²) Rook problem on a fractal lattice. (English summary) **99k:05011**
Wilf, Herbert S. *see* **Calkin, Neil J., 99e:05010**
Wormald, Nicholas C. *see* **Stark, Dudley, 99i:05014**

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Bender, Edward A. (*with* Richmond, L. Bruce) Multivariate asymptotics for products of large powers with applications to Lagrange inversion. (English summary) **99j:41050**
Bollobás, Béla (*with* Riordan, Oliver) Colorings generated by monotone properties. (English summary) **99m:05055**
Canfield, E. Rodney (*with* Corteel, Sylvie; Savage, Carla D.) Durfee polynomials. (English summary) **99h:05007**
— The size of the largest antichain in the partition lattice. (English summary) **99i:05017**
Cohn, Henry (*with* Larsen, Michael; Propp, James Gary) The shape of a typical boxed plane partition. (English summary) **99j:60011**
Conway, Andrew R. (*with* Guttmann, Anthony J.; Delest, Marie-Pierre) The number of three-choice polygons. (English summary) **99c:82032**
Corteel, Sylvie *see* **Canfield, E. Rodney; et al., 99h:05007**
Delest, Marie-Pierre *see* **Conway, Andrew R.; et al., 99c:82032**
Friedgut, Ehud Boolean functions with low average sensitivity depend on few coordinates. (English summary) **99g:28021**
García, Alfredo (*with* Tejel, F. Javier) A lower bound for the number of polygonizations of N points in the plane. (English summary) **99g:52030**
Golič, Jovan D. Random correlation matrices. (English summary) **99h:94046**
Guttmann, Anthony J. *see* **Conway, Andrew R.; et al., 99c:82032**
Hofacker, Ivo L. (*with* Schuster, Peter Karl; Stadler, Peter F.) Combinatorics of RNA secondary structures. (English summary) **99k:92018**
Hwang, Hsien-Kuei A Poisson ∗ negative binomial convolution law for random polynomials over finite fields. (English summary) **99e:11149**
Kolchin, A. V. On the asymptotic behaviour of the number of hyperforests. (English summary) **99g:05105**
Korshunov, A. D. On the asymptotics of the number of binary words with a given length of a maximal series. I. (Russian. Russian summary) **99k:60016**
Lapshin, A. V. The mean number of solutions of a system of random congruences. (English summary) (*see* **99f:60004**)
Larsen, Michael *see* **Cohn, Henry; et al., 99j:60011**
Louchard, Guy Probabilistic analysis of column-convex and directed diagonally-convex animals. (English summary) **99c:05047**
Łuczak, Tomasz (*with* Thoma, Luboš) Convergence of probabilities for the second order monadic properties of a random mapping. (English summary) **99f:03039**
Propp, James Gary *see* **Cohn, Henry; et al., 99j:60011**
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Riordan, Oliver *see* **Bollobás, Béla, 99m:05055**
Sachkov, V. N. Probability distributions on a linear vector space over a Galois field and on sets of permutations. (Russian. Russian summary) **99c:11105**
Savage, Carla D. *see* **Canfield, E. Rodney; et al., 99h:05007**
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Shapovalov, A. V. The number of solutions of systems of random monomial and binomial linear equations. (English summary) **99g:60020**
Stadler, Peter F. *see* **Hofacker, Ivo L.; et al., 99k:92018**
Stark, Dudley Total variation asymptotics for independent process approximations of logarithmic multisets and selections. (English summary) **99a:60005**
Stoimenow, A. Enumeration of chord diagrams and an upper bound for Vassiliev invariants. (English summary) **99c:57032**
Stong, Richard A. The average order of a permutation. (English summary) **99f:11122**
Tejel, F. Javier *see* **García, Alfredo, 99g:52030**
Thoma, Luboš *see* **Łuczak, Tomasz, 99f:03039**

05A17 Partitions of integers [see also 11P81, 11P82, 11P83]

Agarwal, Ashok Kumar[1] (*with* Balasubramanian, Ramachandran) n-color partitions with weighted differences equal to minus two. (English summary) **99a:05004**
Andrews, George E. MacMahon's partition analysis. I. The lecture hall partition theorem. (English summary) **99j:05012**
Balasubramanian, Ramachandran *see* **Agarwal, Ashok Kumar[1], 99a:05004**
Bessenrodt, Christine (*with* Olsson, J. B.) Residue symbols and Jantzen-Seitz partitions. (English summary) **99c:05014**
Bousquet-Mélou, Mireille (*with* Eriksson, Kimmo) Lecture hall partitions. (English summary) **99c:05015**
— (*with* Eriksson, Kimmo) Lecture hall partitions. II. (English summary) **99c:05016**
Canfield, E. Rodney (*with* Corteel, Sylvie; Savage, Carla D.) Durfee polynomials. (English summary) **99h:05007**
Corteel, Sylvie *see* **Canfield, E. Rodney; et al., 99h:05007**
Eriksson, Kimmo *see* **Bousquet-Mélou, Mireille, 99c:05015** *and* **99c:05016**
Griggs, Jerrold R. (*with* Ho, Chih-Chang) The cycling of partitions and compositions under repeated shifts. (English summary) **99j:05013**
Haglund, James (*with* Ono, Ken; Sze, Lawrence) Rook theory and t-cores. (English summary) **99i:05015**
Ho, Chih-Chang *see* **Griggs, Jerrold R., 99j:05013**
Knopfmacher, Arnold (*with* Mays, M. E.) The sum of distinct parts in compositions and partitions. (English summary) **99i:05016**
Mays, M. E. *see* **Knopfmacher, Arnold, 99i:05016**
Nolan, Jennifer M. (*with* Sivaraman, Vijay; Savage, Carla D.; Tiwari, Pranav K.) Graphical basis partitions. (English summary) **99j:05014**
Olsson, J. B. *see* **Bessenrodt, Christine, 99c:05014**
Ono, Ken *see* **Haglund, James; et al., 99i:05015**
Savage, Carla D. *see* **Canfield, E. Rodney; et al., 99h:05007** *and* **Nolan, Jennifer M.; et al., 99j:05014**
Sivaraman, Vijay *see* **Nolan, Jennifer M.; et al., 99j:05014**
Starling, A. Gregory A new integer partitioning algorithm. (English summary) **99k:05012**
Sze, Lawrence *see* **Haglund, James; et al., 99i:05015**
Tiwari, Pranav K. *see* **Nolan, Jennifer M.; et al., 99j:05014**
Torres-Cházaro, Adolfo (*with* Vallejo, Ernesto) Sets of uniqueness and minimal matrices. (English summary) **99k:05013**
Vallejo, Ernesto *see* **Torres-Cházaro, Adolfo, 99k:05013**

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Agarwal, Ashok Kumar[1] Lattice paths and n-color partitions. (English summary) **99a:05005**
Alladi, Krishnaswami On a partition theorem of Göllnitz and quartic transformations. (English summary) **99d:11112**
Andrews, George E. ★ The theory of partitions. (English summary) **99c:11126**
— (*with* Stanton, Dennis W.) Determinants in plane partition enumeration. (English summary) **99f:05002**
Asai, Kazuto Jacobi-Trudi identities for Boolean tableaux and ideal-tableaux of zigzag posets. (English summary) **99j:05192**
Ilenaoum, H. B. h analogue of Newton's binomial formula. (English summary) **99m:05004a**
– (q,h)-analogue of Newton's binomial formula. Addendum to: "h-analogue of Newton's binomial formula". (English summary) **99m:05004b**
Chang, Gerard J. *see* **Yeh, Hong-Gwa; et al., 99b:11115**
Corteel, Sylvie (*with* Savage, Carla D.; Venkatraman, Radhika) A bijection for partitions with all ranks at least t. (English summary) **99f:11135**
Denis, Remy Y. (*with* Singh, Shobh Nath) Some partition theorems. (English summary) **99m:11118**
Eichhorn, Dennis A combinatorial approach to partitions with parts in the gaps. **99f:11136**
Ferreira, F. F. (*with* Fontanari, J. F.) Probabilistic analysis of the number partitioning problem. (English summary) **99b:82009**
Fomin, Sergey (*with* Stanton, Dennis W.) Rim hook lattices. (English summary) **99c:05202**
Fontanari, J. F. *see* **Ferreira, F. F., 99b:82009**
(Gordon, Basil) *see* **Alladi, Krishnaswami, 99d:11112**
Hamilton, G. M. (*with* Roberts, I. T.; Rogers, D. G.) Regular perfect systems of sets of iterated differences. (English summary) **99d:05011**
Hwang, Frank K. *see* **Yeh, Hong-Gwa; et al., 99b:11115**
Krattenthaler, Christian Determinant identities and a generalization of the number of totally symmetric self-complementary plane partitions. (English summary) **99c:05012**
Liaw, Sheng-Chyang *see* **Yeh, Hong-Gwa; et al., 99b:11115**
Regev, Amitai Maximal degrees for Young diagrams in the (k,l) hook. (English summary) **99k:05160**
Roberts, I. T. *see* **Hamilton, G. M.; et al., 99d:05011**
Rogers, D. G. *see* **Hamilton, G. M.; et al., 99d:05011**
Savage, Carla D. *see* **Corteel, Sylvie; et al., 99f:11135**
Schützenberger, Marcel-Paul Pour le monoïde plaxique. (English and French summaries) [A vote for the plactic monoid] **99f:68166**
Singh, Shobh Nath *see* **Denis, Remy Y., 99m:11118**
Stanton, Dennis W. *see* **Fomin, Sergey, 99c:05202** *and* **Andrews, George E., 99f:05002**
Steingrímsson, Einar A chromatic partition polynomial. (English and French summaries) **99b:05065**
Stojmenović, Ivan *see* **Zoghbi, Antoine, (99f:68006)**
Subbarao, M. V. Product partitions and Euler pairs. (English summary) **99c:11127**
Venkatraman, Radhika *see* **Corteel, Sylvie; et al., 99f:11135**
Vershik, Anatolīĭ Moiseevich Statistical mechanics of combinatorial partitions, and their limit configurations. (Russian. Russian summary) **99d:82008**
Yeh, Hong-Gwa (*with* Liaw, Sheng-Chyang; Hwang, Frank K.; Chang, Gerard J.) Enumerating partitions with given part-sizes. (English summary) **99b:11115**
Zoghbi, Antoine (*with* Stojmenović, Ivan) Fast algorithms for generating integer partitions. (English summary) (*see* **99f:68006**)

05A18 Partitions of sets

Canfield, E. Rodney The size of the largest antichain in the partition lattice. (English summary) **99i:05017**
Chang, Gerard J. *see* **Hwang, Frank K., 99b:05006**
Goldberg, Robert R. (*with* Shapiro, Jacob; Waxman, Jerry) Analysis of partition variance for the number partition problem. (English summary) **99k:05014**
Hwang, Frank K. (*with* Chang, Gerard J.) Enumerating consecutive and nested partitions for graphs. (English summary) **99b:05006**
Kuz'minykh, A. V. On a partition of sets into homothetic parts. **99j:05015**
Port, Daniel N. Circular numbers and n-set partitions. (English summary) **99d:05005**
Sahakian, Artur A. On a class of $(0,1)$-matrices associated with partitions of subsets of E^n. (Russian. Armenian summary) **99m:05010**
Shapiro, Jacob *see* **Goldberg, Robert R.; et al., 99k:05014**
Stiranka, A. I. On a combinatorial solution to the problem of the partitioning of a discrete set. (Russian. English and Ukrainian summaries) **99g:05009**
Treml, Miroslav Some partitions of positive integers. (English summary) **99k:05015**
Waxman, Jerry *see* **Goldberg, Robert R.; et al., 99k:05014**

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Abian, Alexander (*with* Kemp, Paula) A special partition of the reals into nonmeasurable subsets. (English summary) **99k:28002**
Athanasiadis, Christos A. On noncrossing and nonnesting partitions for classical reflection groups. (English summary) **99i:05204**
Farley, Jonathan David Chain decomposition theorems for ordered sets and other musings. (English summary) **99a:06002**
Hwang, Frank K. (*with* Onn, Shmuel; Rothblum, Uriel G.) Representations and characterizations of vertices of bounded-shape partition polytopes. (English summary) **99f:52014**
Kalpazidou, S. Cycle representations of Markov processes: an application to rotational partitions. (English summary) **99i:60138**
Kemp, Paula *see* **Abian, Alexander, 99k:28002**
Onn, Shmuel *see* **Hwang, Frank K.; et al., 99f:52014**
Reiner, Victor Non-crossing partitions for classical reflection groups. (English summary) **99f:06005**
Richmond, Thomas A. Quasiorders, principal topologies, and partially ordered partitions. (English summary) **99h:06003**
Rothblum, Uriel G. *see* **Hwang, Frank K.; et al., 99f:52014**

05A19 Combinatorial identities

Barnabei, Marilena (*with* Pezzoli, Elena) Möbius functions. (*see* **99b:01027**)
Cerone, P. *see* **Sofo, Anthony, 99j:05016**
Cohen, G. L. (*with* Petocz, P.) Proof by sporting analogy.
Corsani, Cristiano (*with* Merlini, Donatella; Sprugnoli, Renzo) Left-inversion of combinatorial sums. (English and French summaries) **99c:05017**
Damiani, E. (*with* D'Antona, Ottavio M.; Loeb, Daniel E.) The complementary symmetric functions: connection constants using negative sets. (English summary) **99g:05010**
D'Antona, Ottavio M. The would-be method of targeted rings. (English summary) **99f:05008**
— *see also* **Damiani, E.; et al., 99g:05010**
Dujella, Andrej A bijective proof of Riordan's theorem on powers of Fibonacci numbers. (English summary) **99k:05016**
El-Desouky, B. S. (*with* Hussen, S. A.) A generalization of a waiting time problem. (English summary) **99i:05018**
Gilbey, Julian D. (*with* Kalikow, Louis H.) Parking functions, valet functions and priority queues. (English summary) **99m:05011**
Hussen, S. A. *see* **El-Desouky, B. S., 99i:05018**
Kalikow, Louis H. *see* **Gilbey, Julian D., 99m:05011**
Karapetyan, A. O. Some identities for binomial coefficients. (Russian) **99m:05012**
Krattenthaler, Christian An alternative evaluation of the Andrews-Burge determinant. (English summary) **99g:05011**
Kung, Joseph P. S. Rings associated with the cyclotomic identity. (*see* **99b:01027**)
Lassalle, Michel Quelques conjectures combinatoires relatives à la formule classique de Chu-Vandermonde. [Some combinatorial conjectures associated with the classical Chu-Vandermonde formula] **99i:05019**
Loeb, Daniel E. *see* **Damiani, E.; et al., 99g:05010**
Merlini, Donatella *see* **Corsani, Cristiano; et al., 99c:05017**
Petocz, P. *see* **Cohen, G. L.**
Pezzoli, Elena *see* **Barnabei, Marilena, (99b:01027)**
Singer, Dan W. A bijective proof of Garsia's q-Lagrange inversion theorem. (English summary) **99f:05009**
Sofo, Anthony (*with* Cerone, P.) Generalisation of Euler's identity. (English summary) **99j:05016**
Sprugnoli, Renzo *see* **Corsani, Cristiano; et al., 99c:05017**
Wang, Bo Ying[1] (*with* Zhang, Fuzhen) On the precise number of $(0,1)$-matrices in $\mathfrak{A}(R,S)$. (English summary) **99f:05010**
Yin, Dong Sheng Relative Riordan groups and three generalized identities. (Chinese. English and Chinese summaries)
Zhang, Fuzhen *see* **Wang, Bo Ying[1], 99f:05010**
Zhang, Shi Wu *see* **Zhang, Zhi Zheng**
Zhang, Zhi Zheng (*with* Zhang, Shi Wu) A multiple generalization of a combinatorial iterated triangular identity and its applications. (Chinese. English and Chinese summaries)

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Agarwal, Ashok Kumar[1] (*with* Balasubramanian, Ramachandran) n-color partitions with weighted differences equal to minus two. (English summary) **99a:05004**
— Lattice paths and n-color partitions. (English summary) **99a:05005**
Baker, T. H. (*with* Forrester, P. J.) Generalizations of the q-Morris constant term identity. (English summary) **99e:05013**

Balasubramanian, Ramachandran *see* **Agarwal, Ashok Kumar[1], 99a:05004**
Bera, Soumendra A peculiar identity from the usual expansion of $(a-1)^r$. (English summary) **99a:05003**
Borwein, Jonathan M. (*with* Bradley, David M.; Broadhurst, David J.; Lisoněk, Petr) Combinatorial aspects of multiple zeta values. (English summary) **99g:11100**
Bradley, David M. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Broadhurst, David J. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Campbell, Geoffrey B. Visible point vector summations from hypercube and hyperpyramid lattices. (English summary) **99h:11014**
Chen, William Y. C. (*with* Liu, Zhi Guo) Parameter augmentation for basic hypergeometric series. I. (English summary) **99f:33020**
Chu, Wei Pan *see* **Dang, Si Shan, 99d:11018**
Chu, Wenchang Many identities from one. (English summary) **99d:11016**
— Generating functions and combinatorial identities. (English summary) **99i:05007**
Chyzak, Frédéric (*with* Salvy, Bruno) Non-commutative elimination in Ore algebras proves multivariate identities. (English summary) **99g:68103**
Cigler, J. Operatormethoden für q-Identitäten. VI. Geordnete Wurzelbäume und q-Catalan-Zahlen. [Operator methods for q-identities. VI. Ordered rooted trees and q-Catalan numbers] **99g:05005**
Cooper, Shaun The Macdonald identities for G_2 and some extensions. (English summary) **99k:33056**
Dang, Si Shan (*with* Chu, Wei Pan) Some identities involving Euler numbers, Bernoulli numbers, and generalized Stirling numbers of the first kind. (Chinese. English and Chinese summaries) **99d:11018**
Dohmen, Klaus An improvement of the inclusion-exclusion principle. (English summary) **99m:05005**
Etienne, Gwihen On the Möbius algebra of geometric lattices. (English summary) **99m:05045**
Foda, Omar (*with* Lee, Keith S. M.; Welsh, Trevor A.) A Burge tree of Virasoro-type polynomial identities. (English summary) **99k:17047**
Forrester, P. J. *see* **Baker, T. H., 99e:05013**
Fulmek, Markus Dual rook polynomials. (English summary) **99b:05002**
Ismail, Mourad E. H. (*with* Kim, Dongsu; Stanton, Dennis W.) Lattice paths and positive trigonometric sums. (English summary) **99k:42007**
Iwasaki, Katsunori (*with* Kawamuko, Hiroyuki) A combinatorial formula of Leibniz type with application to Gegenbauer's polynomials. (English summary) **99b:33018**
Kaneko, Jyoichi Constant term identities of Forrester-Zeilberger-Cooper. (English summary) **99d:33024**
Kawamuko, Hiroyuki *see* **Iwasaki, Katsunori, 99b:33018**
Kim, Dongsu *see* **Ismail, Mourad E. H.; et al., 99k:42007**
Krattenthaler, Christian *see* **Okada, Soichi, 99j:05009**
Lee, Keith S. M. *see* **Foda, Omar; et al., 99k:17047**
Lisoněk, Petr *see* **Borwein, Jonathan M.; et al., 99g:11100**
Liu, Zhi Guo *see* **Chen, William Y. C., 99f:33020**
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Schilling, Anne (*with* Warnaar, S. Ole) A higher level Bailey lemma: proof and application. (English summary) **99k:11028**
Singh, U. B. A note on the generalized Alder polynomials. **99d:11021**
Stanton, Dennis W. *see* **Ismail, Mourad E. H.; et al., 99k:42007**
Stoyanovskiĭ, A. V. *see* **Novelli, Jean-Christophe; et al., 99h:05123**
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05A20 Combinatorial inequalities

Boros, George (*with* Moll, Victor H.) A criterion for unimodality. (English summary) **99k:05017**
Gasharov, Vesselin N. On the Neggers-Stanley conjecture and the Eulerian polynomials. (English summary) **99i:05020**
Habsieger, Laurent (*with* Kazaryan, M. È.; Lando, Sergei) On the second number of Plutarch. **99g:05012**
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Moll, Victor H. *see* **Boros, George, 99k:05017**
Sagan, Bruce E. Unimodality and the reflection principle. (English summary) **99g:05013**
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D'Antona, Ottavio M. The would-be method of targeted rings. (English summary) **99f:05008**
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05A30 q-calculus and related topics [see also 03Dxx]

Agarwal, Ashok Kumar[1] Lattice paths and n-color partitions. (English summary) **99a:05005**
Aguiar, Marcelo Braids, q-binomials, and quantum groups. (English summary) **99b:05007**
Baker, T. H. (*with* Forrester, P. J.) Generalizations of the q-Morris constant term identity. (English summary) **99e:05013**
Clarke, Robert John[1] (*with* Han, Guo-Niu; Zeng, Jiang) A combinatorial interpretation of the Seidel generation of q-derangement numbers. (English summary) **99d:05006**
Dworkin, Morris An interpretation for Garsia and Remmel's q-hit numbers. (English summary) **99b:05008**
Forrester, P. J. *see* **Baker, T. H., 99e:05013**
Griffing, Gary An algebraic derivation of the closed form expression for the q-binomial coefficients. **99e:05014**
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Bousquet-Mélou, Mireille (*with* Eriksson, Kimmo) Lecture hall partitions. (English summary) **99c:05015**
— (*with* Eriksson, Kimmo) Lecture hall partitions. II. (English summary) **99c:05016**
Calkin, Neil J. Factors of sums of powers of binomial coefficients. **99i:11011**
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Crippa, Davide (*with* Simon, Klaus) q-distributions and Markov processes. (English summary) **99c:33030**
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Kadell, Kevin W. J. A simple proof of an Aomoto-type extension of Gustafson's Askey-Wilson Selberg q-integral. (English summary) **99k:33055**
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Warnaar, S. Ole *see* **Schilling, Anne, 99k:11028**

05A40 Umbral calculus

Bottreau, Anne (*with* Di Bucchianico, Alessandro; Loeb, Daniel E.) Computer algebra and umbral calculus. (English summary) **99b:05009**
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— (*with* Loeb, Daniel E.) Operator expansion in the derivative and multiplication by x. (English summary) **99b:05010**
— (*with* Loeb, Daniel E.) Natural exponential families and umbral calculus. (English summary) **99g:05015**
— (*with* Loeb, Daniel E.; Rota, Gian-Carlo) Umbral calculus in Hilbert space. **99i:05021**
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Morikawa, Hisasi On differential polynomials. I, II. (English summary) **99m:05013**
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Taylor, Brian D. Difference equations via the classical umbral calculus. **99h:39011**
Verdoodt, Ann Non-Archimedean umbral calculus. (English summary) **99g:46111**

05A99 None of the above, but in this section

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Aigner, Martin Ulams Millionenspiel. (German summary) [Ulam's million game] **99c:05019**
Alon, Noga (*with* Kozlov, Dmitry N.) Coins with arbitrary weights. (English summary) **99f:05011**
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Berenbom, Jonathan (*with* Fendel, Joe; Gilbert, George T.; Hatcher, Rhonda L.) Sliding piece puzzles with oriented tiles. (English summary) **99g:05016**
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Chuan, Wai-fong A representation theorem of the suffixes of characteristic sequences. (English summary) **99d:05008**
Di Francesco, Philippe SU(N) meander determinants. (English summary) **99k:05019**
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Foata, Dominique (*with* Han, Guo-Niu) Inverses of words. (English summary) **99b:05011**
Gargano, Michael L. (*with* LoSacco, Frank; Varden, Stuart) Self descriptive lists. (*see* **99i:05002**)
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Golomb, Solomon W. *see* **Yovanof, G. S., 99g:05017**
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Hines, Peter A. Characterising the linear complexity of span 1 de Bruijn sequences over finite fields. (English summary) **99b:05012**
Ishibashi, Yasunori (*with* Tamai, Hiroyuki) Checker-jumping problem in $\mathbf{R}^n$. (English summary) **99a:05006**
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Koizumi, Hirotaka *see* **Maruoka, Akira; et al., 99m:05015**
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Lenart, Cristian Formal group-theoretic generalizations of the necklace algebra, including a q-deformation. (English summary) **99b:05013**
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Li, Wei An optimal approach for detecting two or three defectives. (Chinese. English and Chinese summaries)
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Maruoka, Akira (*with* Paterson, Michael S.; Koizumi, Hirotaka) Consistency of natural relations on sets. (English summary) **99m:05015**
McSherry, David Inferring wins, draws and losses from points scored in a sports tournament.
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Snevily, Hunter S. (*with* West, Douglas B.) The bricklayer problem and the strong cycle lemma. **99b:05014**
Szpankowski, Wojciech *see* **Kirschenhofer, Peter; et al., 99c:05021**
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Allouche, Jean-Paul (*with* Currie, James; Shallit, Jeffrey) Extremal infinite overlap-free binary words. (English summary) **99d:68201**
Atkinson, M. D. (*with* Tulley, D.) The combinatorics of some abstract data types. (English summary) **99a:68131**
Chuan, Wai-fong α-words and factors of characteristic sequences. (English summary) **99d:68203**
Currie, James *see* **Allouche, Jean-Paul; et al., 99d:68201**
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Gourdon, Xavier Largest component in random combinatorial structures. (English summary) **99c:60013**
Harborth, Heiko Integral distances in point sets. (English summary) (*see* **99i:00015**)
Huang, Yun Bao Conditions for powers of C^∞-words to be C^∞-words. I. (Chinese. English and Chinese summaries) **99b:68153**
Hwang, Hsien-Kuei On convergence rates in the central limit theorems for combinatorial structures. (English summary) **99c:60014**
Nogura, Tsugunori (*with* Shakhmatov, Dmitriĭ B.) Spaces which have finitely many continuous selections. (Italian summary) **99a:54011**
Panigrahy, Rina (*with* Vishwanathan, Sundar) An $O(\log^* n)$ approximation algorithm for the asymmetric p-center problem. **99d:68120**
Shakhmatov, Dmitriĭ B. *see* **Nogura, Tsugunori, 99a:54011**
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Smyth, William F. Approximate periodicity in strings. (English summary) **99d:68209**
Tulley, D. *see* **Atkinson, M. D., 99a:68131**
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Yü, Shih Shêng d-minimal languages. (English summary) **99j:68113**

05Bxx Designs and configurations {For applications of design theory, see 94C30.}

05B05 Block designs [see also 51E05, 62K10]

Abel, R. Julian R. (*with* Greig, Malcolm) Balanced incomplete block designs with block size 7. (English summary) **99b:05015**

— (*with* Bennett, Frank E.) The existence of perfect Mendelsohn designs with block size 7. (English summary) **99c:05022**

Adams, Peter (*with* Bryant, Darryn E.; Khodkar, A.) On the number of repeated triples in balanced ternary designs with index two. (English summary) **99m:05016**

Ali, Syed Anwer An alternate proof for the non-existence of symmetrical incomplete block design for some values of parameters. (English summary) **99j:05019**

Anderson, Ian ★ Combinatorial designs and tournaments. (English summary) **99h:05008**

Arasu, K. T. (*with* Evans, Anthony B.; Balasubramanian, Ramachandran) A new family of nested row-column designs. (English summary) **99k:05021**

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— (*with* Wei, Ruizhong) Modified group divisible designs with block size 4 and $\lambda = 1$. (English summary) **99i:05025**

— *see also* **Yin, Jian Xing**, **99g:05025**

Bagchi, Sunanda On two-way designs. (English summary) **99g:05018**

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Bekker, Boris (*with* Ionin, Yury J.; Shrikhande, Mohan S.) Embeddability and construction of affine α-resolvable pairwise balanced designs. (English summary) **99a:05008**

Bennett, Frank E. (*with* Shalaby, Nabil; Yin, Jian Xing) Existence of directed GDDs with block size five. (English summary) **99j:05020**

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— (*with* Laue, Reinhard; Wassermann, Alfred) New t-designs and large sets of t-designs. (English summary) **99k:05023**

— (*with* Laue, Reinhard; Wassermann, Alfred) Simple 7-designs with small parameters. (English summary) **99k:05022**

Bhagwandas *see* **Kherwa, G. Ram; et al.**

Bluskov, Iliya Some t-designs are minimal $(t+1)$-coverings. (English summary) **99a:05009**

— New simple 3-designs on 26 and 28 points. (English summary) **99k:05024**

Boyvalenkov, Peter G. (*with* Danev, Danyo; Nikova, Svetla Iordanova) Nonexistence of certain spherical designs of odd strengths and cardinalities. (English summary) **99k:05025**

Božikov, Zdravka Symmetric designs with parameters $(69, 17, 4)$ and F_{39} as a group of automorphisms. (English summary) **99e:05016**

Bryant, Darryn E. (*with* Maenhaut, Barbara M.) Defining sets of G-designs. (English summary) **99a:05010**

— (*with* Khodkar, A.) 5-cycle systems of $K_v - F$ with a hole. (English summary) **99g:05020**

— (*with* Khodkar, A.; El-Zanati, S. I.) Small embeddings for partial G-designs when G is bipartite. (English summary) **99m:05017**

— *see also* **Adams, Peter; et al., 99m:05016**

Buratti, Marco Some constructions for 1-rotational BIBD's with block size 5. (English summary) **99e:05017**

— (*with* Zuanni, Fulvio) G-invariantly resolvable Steiner 2-designs which are 1-rotational over G. (English summary) **99k:05026**

Ćepulić, Vladimir The unique symmetric block design $(61, 16, 4)$ admitting an automorphism of order 15 operating standardly. **99b:05016**

Chan, B. S. P. (*with* Eccleston, J. A.) On the construction of complete and partial nearest neighbour balanced designs. (English summary) **99g:05021**

Chen, Ke Jun (*with* Zhu, Lie[1]) Existence of $(q, k, 1)$ difference families with q a prime power and $k = 4, 5$. (English summary) **99m:05018**

Cho, Soojin Minimal null designs and a density theorem of posets. (English summary) **99h:05009**

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Cigić, Vlado Some new partially symmetric designs and their resolution. (English summary) **99e:05018**

Colbourn, Charles J. (*with* Yin, Jian Xing) On directed incomplete transversal designs with block size five. (English summary) **99i:05028**

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Delaney, Cathy (*with* Gray, Brenton D.; Gray, Ken; Maenhaut, Barbara M.; Sharry, Martin J.; Street, Anne Penfold) Pointwise defining sets and trade cores. (English summary) **99b:05017**

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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

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Byard, Kevin *see* **Jennings, Derek, 99c:11004**
Chen, Ke Jun (*with* Zhu, Lie[1]) Existence of $(q, k, 1)$ difference families with q a prime power and $k = 4, 5$. (English summary) **99m:05018**
Downey, Rodney G. (*with* Füredi, Zoltán; Jockusch, Carl G., Jr.; Rubel, Lee A.) Difference sets and computability theory. (English summary) **99h:03022**
Füredi, Zoltán *see* **Downey, Rodney G.; et al., 99h:03022**
Gysin, Marc (*with* Seberry, Jennifer) An experimental search and new combinatorial designs via a generalisation of cyclotomy. (English summary) **99j:05041**
Ionin, Yury J. A technique for constructing symmetric designs. (English summary) **99d:05009**
Ito, Noboru On Hadamard 2-groups. (English summary) **99k:20006**
Jennings, Derek (*with* Byard, Kevin) Qualified residue difference sets with zero. (English summary) **99c:11004**
Jockusch, Carl G., Jr. *see* **Downey, Rodney G.; et al., 99h:03022**
Rubel, Lee A. *see* **Downey, Rodney G.; et al., 99h:03022**
Ruzsa, Imre Z. A small maximal Sidon set. (English summary) **99g:11026**
Seberry, Jennifer *see* **Gysin, Marc, 99j:05041**
Zhu, Lie[1] *see* **Chen, Ke Jun, 99m:05018**

05B15 Orthogonal arrays, Latin squares, Room squares

Adams, Michael J. Generalized orthogonal arrays: constructions and related graphs. (English summary) **99k:05037**
Al-Ashhab, S. Computer-solution of the magic 4×4 squares and semi-magic 4×4 squares problem. (English and Arabic summaries)
Anderson, Ian On the construction of balanced Room squares. (English summary) **99i:05037**
Arkin, Joseph (*with* Smith, Paul) The Arkin-Smith construction on pairs of orthogonal Latin squares of order 14. (*see* **99i:00023**)
(Arney, David C.) *see* **Arkin, Joseph, (99i:00023)**
Beder, Jay H. On Rao's inequalities for arrays of strength d. (English summary) **99g:05032**
Benjamin, Arthur T. (*with* Yasuda, Kan) Magic "squares" indeed!
Bennett, Frank E. (*with* Zhang, Hantao; Zhu, Lie[1]) Holey self-orthogonal Latin squares with symmetric orthogonal mates. (English summary) **99j:05035**
— (*with* Zhang, Hantao) Existence of (3, 1, 2)-HCOLS and (3, 1, 2)-ICOILS. (English summary) **99d:05013**
Brée, David S. (*with* Ollerenshaw, Kathleen) Pandiagonal magic squares from mixed auxiliary squares. (English summary) **99g:05033**
— *see also* **Ollerenshaw, Kathleen, 99j:05038**
Chaure, N. K. *see* **Misra, B. L.; et al., 99e:05024**
Chebrakov, Y. V. Analytical formulae and algorithms for constructing magic squares from an arbitrary set of 16 numbers. (English summary) (*see* **99a:11002**)
Chen, Hao[4] (*with* Liu, Chun Rong) A formation rule for magic cubes. (Chinese. English and Chinese summaries)
Chen, Rong Sheng[2] *see* **Li, Ying Jie[2]**
Chetwynd, Amanda G. (*with* Rhodes, Susan J.) Avoiding multiple entry arrays. (English summary) **99b:05023**
Chigbu, P. E. The block structures and isomorphism of semi-Latin squares and related designs. (Englisn summary) **99i:05038**
Donovan, Diane (*with* Howse, Adelle) Critical sets for Latin squares of order 7. (English summary) **99i:05039**
— Critical sets for families of Latin squares. (English summary) **99a:05018**
— Critical sets in Latin squares of order less than 11. (English summary) **99k:05038**
Drake, David A. (*with* van Rees, G. H. J.; Wallis, W. D.) Maximal sets of mutually orthogonal Latin squares. (English summary) **99k:05039**
Drisko, Arthur A. Proof of the Alon-Tarsi conjecture for $n = 2^r p$. (English summary) **99c:05035**
Du, Bei Liang Constructing self-conjugate self-orthogonal diagonal Latin squares. (English summary) **99h:05015**
Golightly, W. L. (*with* Haynsworth, W. H.; Sarvate, Dinesh G.; Logan, Roger) Nontransitive semi-standard orthogonal Latin squares. (English summary) **99i:05040**
Haynsworth, W. H. *see* **Golightly, W. L.; et al., 99i:05040**
Howse, Adelle Families of critical sets for the dihedral group. (English summary) **99h:05016**
— *see also* **Donovan, Diane, 99i:05039**
Jiang, Li Li *see* **Qin, Zhong Ping; et al., 99k:05042**
Keedwell, A. D. What is the size of the smallest Latin square for which a weakly completable critical set of cells exists? (English summary) **99j:05036**
Khodkar, A. On smallest critical sets for the elementary abelian 2-group. (English summary) **99f:05019**
Koukouvinos, Christos (*with* Mitrouli, Marilena; Seberry, Jennifer) Necessary and sufficient conditions for some two variable orthogonal designs in order 44. (English summary) **99k:05040**
Laywine, Charles F. (*with* Mullen, Gary L.) ★ Discrete mathematics using Latin squares. (English summary) **99k:05041**
Levenshtein, Vladimir I. Split orthogonal arrays and maximum independent resilient systems of functions. (English summary) **99c:05036**
Li, Ying Jie[2] (*with* Chen, Rong Sheng[2]) A method of constructing product magic squares using nongeometric sequences of numbers. (Chinese)
Lin, Peng Cheng A uniform construction method with a general formula for even order magic squares. (Chinese. English and Chinese summaries)
Liu, Chun Rong *see* **Chen, Hao[4]**
Logan, Roger *see* **Golightly, W. L.; et al., 99i:05040**
McKay, Brendan D. (*with* Wanless, I. M.) Maximising the permanent of (0, 1)-matrices and the number of extensions of Latin rectangles. (English summary) **99a:05019**
Misra, B. L. (*with* Chaure, N. K.; Wanjari, N.) On construction of mutually orthogonal F-squares. (English summary) **99e:05024**
Mitrouli, Marilena *see* **Koukouvinos, Christos; et al., 99k:05040**
Morgan, Ilene H. Properties of complete sets of mutually equiorthogonal frequency hypercubes. (English summary) **99i:05041**
— Equiorthogonal frequency hypercubes: preliminary theory. (English summary) **99d:05014**
— Construction of complete sets of mutually equiorthogonal frequency hypercubes. (English summary) **99e:05025**
Mullen, Gary L. *see* **Laywine, Charles F., 99k:05041**
Myrvold, Wendy Negative results for orthogonal triples of Latin squares of order 10. (English summary) **99j:05037**
Nester, Marks R. Sequential arrays. (English summary) **99b:05024**
Ollerenshaw, Kathleen (*with* Brée, David S.) Most-perfect pandiagonal magic squares. (English summary) **99j:05038**
— *see also* **Brée, David S., 99g:05033**
Phillips, N. C. K. *see* **Preece, D. A.; et al., 99j:05039**
Preece, D. A. (*with* Vowden, B. J.; Phillips, N. C. K.) Double Youden rectangles of sizes $p \times (2p + 1)$ and $(p + 1) \times (2p + 1)$. (English summary) **99j:05039**

— (*with* Vowden, B. J.) Some series of cyclic balanced hyper-Graeco-Latin superimpositions of three Youden squares. (English summary) **99j:05040**
— *see also* **Rees, D. H., 99i:05042**
Qin, Zhong Ping (*with* Zhang, Huan Guo; Xu, Guo Ai; Jiang, Li Li) The computer-aided AIC method for finding the isotopy classes of Latin squares. (Chinese. English and Chinese summaries) **99k:05042**
— *see also* **Xu, Guo Ai**
Rees, D. H. (*with* Preece, D. A.) Perfect Graeco-Latin balanced incomplete block designs (pergolas). (English summary) **99i:05042**
van Rees, G. H. J. *see* **Drake, David A.; et al., 99k:05039**
Rhodes, Susan J. *see* **Chetwynd, Amanda G., 99b:05023**
Sarvate, Dinesh G. *see* **Golightly, W. L.; et al., 99i:05040**
Seberry, Jennifer *see* **Koukouvinos, Christos; et al., 99k:05040**
Singal, M. K. Some more interesting magic squares.
— Some interesting magic squares. (English summary)
Smith, Paul *see* **Arkin, Joseph, (99i:00023)**
Stinson, Douglas R. Some results on nonlinear zigzag functions. (English summary) **99m:05032**
Street, Deborah J. Orthogonal arrays as designed experiments. (English summary) **99g:05034**
Tabirca, Sabin Smarandache magic squares.
Vowden, B. J. *see* **Preece, D. A.; et al., 99j:05039** *and* **99j:05040**
Wallis, W. D. *see* **Drake, David A.; et al., 99k:05039**
Wang, Cheng-De Frame starters and adders in dicyclic groups. (English summary) **99i:05043**
Wanjari, N. *see* **Misra, B. L.; et al., 99e:05024**
Wanless, I. M. *see* **McKay, Brendan D., 99a:05019**
Xu, Guo Ai (*with* Qin, Zhong Ping) Isotopy classes of $(4, k)$ Latin arrays ($k \leq 11$). (Chinese. English and Chinese summaries)
— *see also* **Qin, Zhong Ping; et al., 99k:05042**
Yasuda, Kan *see* **Benjamin, Arthur T.**
Zhang, Hantao *see* **Bennett, Frank E., 99d:05013** *and* **99j:05035**
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Zhu, Lie[1] *see* **Bennett, Frank E.; et al., 99j:05035**

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Anderson, Ian ★ Combinatorial designs and tournaments. (English summary) **99h:05008**
Beintema, Mark B. (*with* Bonn, Jeffrey T.; Fitzgerald, Robert W.; Yucas, Joseph L.) Orderings of finite fields and balanced tournaments. **99d:05037**
Bierbrauer, Jürgen (*with* Gopalakrishnan, K.; Stinson, Douglas R.) A note on the duality of linear programming bounds for orthogonal arrays and codes. (English summary) **99a:94065**
— *see also* **Edel, Yves, 99e:94040**
Bonn, Jeffrey T. *see* **Beintema, Mark B.; et al., 99d:05037**
Box, George (*with* Tyssedal, John) Projective properties of certain orthogonal arrays. (English summary) **99a:62113**
Buratti, Marco Recursive constructions for difference matrices and relative difference families. (English summary) **99a:05016**
Casse, Louis Reynolds Antoine (*with* Martin, Keith M.; Wild, Peter R.) Bounds and characterizations of authentication/secrecy schemes. (English summary) **99c:94027**
Chaudhry, Ghulam-Rasool (*with* Ghodosi, Hossein; Seberry, Jennifer) Perfect secret sharing schemes from Room squares. (English summary) **99j:94040**
Chebrakov, Y. V. (*with* Shmagin, V. V.) The analytical formulae yielding some Smarandache numbers and applications in magic squares theory. (English summary) (*see* **99a:11002**)
Chen, Ke Jun (*with* Zhu, Lie[1]) Existence of APAV(q, k) with q a prime power $\equiv 3 \pmod 4$ and k odd > 1. (English summary) **99k:94031**
Colbourn, Charles J. *see* **Gallant, Robert P., 99i:62178**
Edel, Yves (*with* Bierbrauer, Jürgen) Construction of digital nets from BCH-codes. (English summary) **99e:94040**
Fitzgerald, Robert W. *see* **Beintema, Mark B.; et al., 99d:05037**
Gallant, Robert P. (*with* Colbourn, Charles J.) Asymptotic existence of tight orthogonal main effect plans. (English summary) **99i:62178**
Ghodosi, Hossein *see* **Chaudhry, Ghulam-Rasool; et al., 99j:94040**
Gopalakrishnan, K. *see* **Bierbrauer, Jürgen; et al., 99a:94065**
Hahn, Sang-Geun (*with* Kim, Dong Geon; Kim, Yong Soo) A decoding algorithm for orthogonal Latin square codes. (English summary) **99d:94041**
Hiramine, Yutaka On three-dimensional Schur rings obtained from partial spreads. (English summary) **99b:20042**
Killgrove, R. (*with* Sternfeld, R.; Tamez, R.) Quadrangle completions and the anti-Desargues configuration. **99b:05026**
Kim, Dong Geon *see* **Hahn, Sang-Geun; et al., 99d:94041**
Kim, Yong Soo *see* **Hahn, Sang-Geun; et al., 99d:94041**
Kumar, S. Ravi (*with* Russell, Alexander; Sundaram, Ravi) Approximating Latin square extensions. (English summary) **99m:68088**
Kurosawa, Kaoru (*with* Okada, Koji; Saido, Hajime; Stinson, Douglas R.) New combinatorial bounds for authentication codes and key predistribution schemes. (English summary) **99m:94032**
Lindner, C. C. Graph theory and universal algebra go hand in hand. **99c:05115**
Martin, Keith M. *see* **Casse, Louis Reynolds Antoine; et al., 99c:94027**
Munemasa, Akihiro Orthogonal arrays, primitive trinomials, and shift-register sequences. (English summary) **99m:94029**
Okada, Koji *see* **Kurosawa, Kaoru; et al., 99m:94032**
Prescott, Philip Construction of sequentially counterbalanced designs formed from two Latin squares. (English summary) **99m:05024**
Rezaie, M. Chromatic polynomial of Cartesian product of graphs. (English summary) **99b:05063**
Russell, Alexander *see* **Kumar, S. Ravi; et al., 99m:68088**
Saido, Hajime *see* **Kurosawa, Kaoru; et al., 99m:94032**
Seberry, Jennifer *see* **Chaudhry, Ghulam-Rasool; et al., 99j:94040**
Shmagin, V. V. *see* **Chebrakov, Y. V., (99a:11002)**
Skau, Ivar H. A note on the asymptotic number of Latin rectangles. (English summary) **99h:05006**
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Sundaram, Ravi *see* **Kumar, S. Ravi; et al., 99m:68088**
Tamez, R. *see* **Killgrove, R.; et al., 99b:05026**
Tyssedal, John *see* **Box, George, 99a:62113**
Wild, Peter R. *see* **Casse, Louis Reynolds Antoine; et al., 99c:94027**
Yucas, Joseph L. *see* **Beintema, Mark B.; et al., 99d:05037**
Zhang, Hantao Specifying Latin square problems in propositional logic. (*see* **99a:68152**)
Zhu, Lie[1] *see* **Chen, Ke Jun, 99k:94031**

05B20 Matrices (incidence, Hadamard, etc.)

Arasu, K. T. (*with* Seberry, Jennifer) On circulant weighing matrices. (English summary) **99c:05037**
— A reduction theorem for circulant weighing matrices. (English summary) **99g:05035**
— (*with* Torban, Dina) New weighing matrices of weight 25. (English summary) **99h:05017**
Beder, Jay H. Conjectures about Hadamard matrices. (English summary) **99g:05036**
Bu, Guan Ying The equivalence problem for Costas arrays. (Chinese. English and Chinese summaries) **99c:05038**
Chen, Qin A method for constructing Hadamard matrices of type $2^k 3$. (Chinese. English and Chinese summaries)
Cheon, Gi-Sang (*with* Shader, Bryan L.) How sparse can a matrix with orthogonal rows be? (English summary) **99i:05044**
Claasen, H. L. *see* **Goldbach, R. W., 99i:05046**
Cooke, C. H. (*with* Heng, I.) Polynomial construction of complex Hadamard matrices with cyclic core. (English summary) **99g:05037**
Craigen, R. (*with* Holzmann, W. H.; Kharaghani, H.) On the asymptotic existence of complex Hadamard matrices. (English summary) **99e:05026**
Đoković, Dragomir Ž. Aperiodic complementary quadruples of binary sequences. (English summary) **99e:05027**
Edelman, Alan (*with* Friedman, David) A counterexample to a Hadamard matrix pivot conjecture. (English summary) **99c:05039**
Friedman, David *see* **Edelman, Alan, 99c:05039**
Godbole, Anant P. (*with* Potter, Laura K.; Sandquist, Erik J.) Sign-balanced covering matrices. (English summary) **99g:05038**
Goh, Derek (*with* Street, Deborah J.) Projective properties of small Hadamard matrices and fractional factorial designs. (English summary) **99i:05045**
Goldbach, R. W. (*with* Claasen, H. L.) Checkered Hadamard matrices of order 16. (English summary) **99i:05046**
Gysin, Marc (*with* Seberry, Jennifer) An experimental search and new combinatorial designs via a generalisation of cyclotomy. (English summary) **99j:05041**
Heng, I. *see* **Cooke, C. H., 99g:05037**
Holzmann, W. H. (*with* Kharaghani, H.; Lavassani, M. T.) The excess problem and some excess inequivalent matrices of order 32. (English summary) **99g:05039**
— *see also* **Craigen, R.; et al., 99e:05026**
Horadam, K. J. (*with* Lin, Cantian) Construction of proper higher-dimensional Hadamard matrices from perfect binary arrays. (English summary) **99i:05047**
Hou, Xiang-dong (*with* Langevin, Philippe) Results on bent functions. (English summary) **99b:05025**
Kamali, F. (*with* Kharaghani, H.) Dihedral Golay sequences. (English summary) **99g:05040**
Kharaghani, H. *see* **Craigen, R.; et al., 99e:05026**; **Holzmann, W. H.; et al., 99g:05039** *and* **Kamali, F., 99g:05040**
Khosrovshahi, G. B. (*with* Maysoori, Ch.) On the structure of higher incidence matrices. (English summary) **99h:05018**
Langevin, Philippe *see* **Hou, Xiang-dong, 99b:05025**
Lavassani, M. T. *see* **Holzmann, W. H.; et al., 99g:05039**
Li, Chaoying (*with* Yu, Hongquan) Intervals of gaps on cardinalities of Boolean matrices. (English and Chinese summaries) **99m:05033**
Li, Fang[2] (*with* Liu, Hai Sheng) Some results on Hadamard matrices. (Chinese. English and Chinese summaries)
Lin, Cantian *see* **Horadam, K. J., 99i:05047**
Liu, Hai Sheng *see* **Li, Fang[2]**
Lütolf, Christine (*with* Margot, François) A catalog of minimally nonideal matrices. (English summary) **99h:05019**
Margot, François *see* **Lütolf, Christine, 99h:05019**
Marrero, Osvaldo Une propriété maximale de matrices binaires et inversibles dont toutes les lignes contiennent le même nombre de répétitions du chiffre un. (English summary) [A maximal property of invertible binary matrices all of whose rows have the same number of ones] **99g:05041**
Maysoori, Ch. *see* **Khosrovshahi, G. B., 99h:05018**
Meidanis, João (*with* Porto, Oscar; Telles, Guilherme P.) On the consecutive ones property. (English summary) **99k:05043**
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Ohmori, Hiroyuki (*with* Miyamoto, Takashi[1]) Construction of weighing matrices $W(17, 9)$ having the intersection number 8. (English summary) **99i:05048**
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Sandquist, Erik J. *see* **Godbole, Anant P.; et al., 99g:05038**
Sarukhanyan, A. G. Complementary parametric block sequences. (Russian. Armenian summary) **99k:05044**
— Decomposition of Hadamard matrices into orthogonal $(-1, +1)$-vectors and an algorithm for the fast Hadamard transform. (Russian. Armenian summary) **99k:05045**
Seberry, Jennifer Bose's method of differences applied to construct Bhaskar Rao designs. (English summary) **99i:05049**

— *see also* **Arasu, K. T.**, 99c:05037 *and* **Gysin, Marc**, 99j:05041
Shader, Bryan L. Sign-nonsingular matrices and orthogonal sign-patterns. (English summary) **99c:05040**
— *see also* **Cheon, Gi-Sang**, 99i:05044
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Telles, Guilherme P. *see* **Meidanis, João; et al.**, 99k:05043
Torban, Dina *see* **Arasu, K. T.**, 99h:05017
Wang, Bo Ying[1] (*with* Zhang, Fuzhen) On normal matrices of zeros and ones with fixed row sum. (English summary) **99e:05028**
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Baliga, A. New self-dual codes from cocyclic Hadamard matrices. (English summary) **99k:94062**
Box, George (*with* Tyssedal, John) Projective properties of certain orthogonal arrays. (English summary) **99a:62113**
Cho, Han Hyuk Permanents of prime Boolean matrices. (English summary) **99k:15009**
Claasen, H. L. *see* **Goldbach, R. W.**, 99j:05196
Davis, James Andrew (*with* Iiams, Joel E.) Hadamard difference sets in nonabelian 2-groups with high exponent. (English summary) **99a:05017**
Goldbach, R. W. (*with* Claasen, H. L.) 3-class association schemes and Hadamard matrices of a certain block form. (English summary) **99j:05196**
Gregory, David A. (*with* Vander Meulen, Kevin N.) Decompositions of complete multigraphs related to Hadamard matrices. (English summary) **99d:05070**
Harada, Masaaki New extremal type II codes over $\mathbf{Z}_4$. (English summary) **99c:94044**
Hershey, John E. *see* **Yarlagadda, R. K. Rao**, 99a:94009
Iiams, Joel E. *see* **Davis, James Andrew**, 99a:05017
Ionin, Yury J. A technique for constructing symmetric designs. (English summary) **99d:05009**
— Symmetric subdesigns of symmetric designs. (English summary) **99k:05027**
Ito, Noboru On Hadamard 2-groups. (English summary) **99k:20006**
Jaeger, François (*with* Matsumoto, Makoto; Nomura, Kazumasa) Bose-Mesner algebras related to type II matrices and spin models. (English summary) **99f:05125**
Jones, Byron *see* **Sinha, Kishore; et al.**, 99k:05031
Kageyama, Sanpei *see* **Sinha, Kishore; et al.**, 99k:05031
Madatyan, Kh. A. On an algorithm for constructing irredundant tests for binary tables. (Russian. Russian summary) **99e:65008**
Matsumoto, Makoto *see* **Jaeger, François; et al.**, 99f:05125
Nomura, Kazumasa *see* **Jaeger, François; et al.**, 99f:05125
Pirlot, Marc (*with* Vincke, Ph.) ★ Semiorders. (English summary) **99f:06001**
Sarvate, Dinesh G. (*with* Seberry, Jennifer) Group divisible designs, GBRSDS and generalized weighing matrices. (English summary) **99j:05024**
Seberry, Jennifer *see* **Sarvate, Dinesh G.**, 99j:05024
Sinha, Kishore (*with* Jones, Byron; Kageyama, Sanpei) A series of quasi-multiple BIB designs from Hadamard matrices. (English summary) **99k:05031**
Torres-Cházaro, Adolfo (*with* Vallejo, Ernesto) Sets of uniqueness and minimal matrices. (English summary) **99k:05013**
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Wang, Bo Ying[1] (*with* Zhang, Fuzhen) On the precise number of $(0,1)$-matrices in $\mathfrak{A}(R,S)$. (English summary) **99f:05010**
Xiang, Qing On reversible abelian Hadamard difference sets. (English summary) **99f:05018**
Yarlagadda, R. K. Rao (*with* Hershey, John E.) ★ Hadamard matrix analysis and synthesis. (English summary) **99a:94009**
Zhang, Fuzhen *see* **Wang, Bo Ying[1]**, 99f:05010

05B25 Finite geometries [see also 51D20, 51Exx]

Betten, Anton (*with* Betten, Dieter) Linear spaces with at most 12 points. (English summary) **99m:05034**
Betten, Dieter *see* **Betten, Anton**, 99m:05034
Colbourn, Charles J. *see* **Ling, Alan C. H.**, 99i:05051
Devillers, Alice (*with* Doyen, Jean) Homogeneous and ultrahomogeneous linear spaces. (English summary) **99e:05029**
Dover, Jeremy M. Unitary designs with a common collection of blocks. (English summary) **99m:05035**
Doyen, Jean *see* **Devillers, Alice**, 99e:05029
Eisfeld, Jörg On the common nature of spreads and pencils in PG(d,q). (English summary) **99g:05042**
Glynn, David G. A 126-cap of PG$(5,4)$ and its corresponding [126, 6, 88]-code. (English summary) **99m:05036**
Govaert, E. A combinatorial characterization of some finite classical generalized hexagons. (English summary) **99j:05042**
Hamada, Noboru (*with* Watamori, Yoko) The nonexistence of ternary [79, 6, 51] codes. (English summary) **99i:05050**
Hamilton, Nicholas *see* **Mathon, Rudolf A.**, 99j:05043
Innamorati, Stefano The non-existence of certain large minimal blocking sets. (English summary) **99h:05020**
Killgrove, R. (*with* Sternfeld, R.; Tamez, R.) Quadrangle completions and the anti-Desargues configuration. **99b:05026**
Ling, Alan C. H. (*with* Colbourn, Charles J.) Deleting lines in projective planes. (English summary) **99i:05051**
Mathon, Rudolf A. (*with* Hamilton, Nicholas) Baer partitions of small order projective planes. (English summary) **99j:05043**
Meixner, Thomas (*with* Pasini, Antonio) On flat extended grids. (English summary) **99a:05020**
Pasini, Antonio *see* **Meixner, Thomas**, 99a:05020
Penttila, Tim (*with* Royle, Gordon F.) BLT-sets over small fields. (English summary) **99g:05043**
Polito, Pompeo (*with* Polverino, Olga) On small blocking sets. (English summary) **99i:05052**
Polverino, Olga *see* **Polito, Pompeo**, 99i:05052
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Watamori, Yoko *see* **Hamada, Noboru**, 99i:05050

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Arasu, K. T. (*with* Torban, Dina) New weighing matrices of weight 25. (English summary) **99h:05017**
Ball, Simeon Partial unitals and related structures in Desarguesian planes. (English summary) **99j:51008**
— (*with* Blokhuis, Aart) An easier proof of the maximal arcs conjecture. (English summary) **99a:51009**
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— *see also* **Pasini, Antonio**, 99k:51014b
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Il'inykh, A. P. The Hering plane and associated block designs. (Russian. Russian summary) **99f:05014**
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Pasini, Antonio Errata: "Parallelism and cubes in $C_2.c$-geometries" [European J. Combin. **19** (1998), no. 2, 183–213; MR 99a:51010] by Pasini and "On $C_2.L$-geometries" [Geom. Dedicata **71** (1998), no. 1, 33–59; MR 99k:51014a] by B. Baumeister and Pasini. **99k:51014b**
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05B30 Other designs, configurations [see also 51E30]

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Attinger, Lauree (*with* Leonard, Philip A.) New families of Z-cyclic triplewhist tournaments. (English summary) **99j:05044**
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Billington, Elizabeth J. (*with* Hoffman, Dean G.; Maenhaut, Barbara M.) Group divisible pentagon systems. (English summary) **99m:05038**
Boyvalenkov, Peter G. (*with* Nikova, Svetla Iordanova) Improvements of the lower bounds on the size of some spherical designs. (English summary) **99j:05045**
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Chopra, D. V. Contributions to balanced arrays of strength five. (English summary) **99a:05022**
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— (*with* Merritt, Adele J.) Z-cyclic triplewhist tournaments—some exceptional cases. (English summary) **99j:05047**
— (*with* Leonard, Philip A.) More ZCPS-Wh(v) and several new infinite classes of Z-cyclic whist tournaments. (English summary) **99h:05021**
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Fortin, Dominique (*with* Rudolf, Rüdiger) Weak Monge arrays in higher dimensions. (English summary) **99f:05021**
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— *see also* **Billington, Elizabeth J.; et al., 99m:05038**
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Constantine, Gregory (*with* Xue, Lian Yong) Aliasing in 2^{n-k} fractions in the absence of within group interactions. (English summary) **99c:62213**
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Gulliver, T. Aaron (*with* Harada, Masaaki) Codes of lengths 120 and 136 meeting the Grey-Rankin bound and quasi-symmetric designs. (English summary) **99j:94071**
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Maenhaut, Barbara M. The intersection problem for group divisible pentagon systems. (English summary) **99f:05093**
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Nikova, Svetla Iordanova ★ Bounds for designs in infinite polynomial metric spaces. **99j:51010**
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05B35 Matroids, geometric lattices [see also 52B40, 90C27]

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Alekseevskaya, T. V. (*with* Gel′fand, Izrail′ Moiseevich) Incidence matrices, geometrical bases, combinatorial prebases and matroids. (English summary) **99m:05043**
Barnabei, Marilena (*with* Nicoletti, Giorgio; Pezzoli, Luigi) Matroids on partially ordered sets. **99c:05042**
Behr, A. (*with* Camarinopoulos, L.) On matroid base families and the reliability computation of totally amenable systems. (English summary) **99m:05044**
Bonin, Joseph E. On basis-exchange properties for matroids. (English summary) **99a:05023**
Borovik, A. V. (*with* Gel′fand, Izrail′ Moiseevich; White, Neil) Coxeter matroid polytopes. (English summary) **99d:05016**
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— Multimatroids. IV. Chain-group representations. (English summary) **99k:05050**
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Dias da Silva, J. A. (*with* Fernandes, Rosário; Fonseca, Amélia) The covering number of the elements of a matroid and generalized matrix functions. (English summary) **99a:05024**
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Dress, Andreas W. M. (*with* Terhalle, Werner F.) The tree of life and other affine buildings. **99k:05051**
Edwards, Hugh (*with* Hierons, Robert; Jackson, Bill) The zero-free intervals for characteristic polynomials of matroids. (English summary) **99e:05032**
Etienne, Gwihen On the Möbius algebra of geometric lattices. (English summary) **99m:05045**
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Geelen, James F. (*with* Oxley, James; Vertigan, Dirk; Whittle, Geoff) Weak maps and stabilizers of classes of matroids. (English summary) **99f:05023**
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Hierons, Robert *see* **Edwards, Hugh; et al., 99e:05032**
Hochstättler, Winfried A lattice-theoretical characterization of oriented matroids. (English summary) **99b:05029**
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Kingan, S. R. Intersections of circuits and cocircuits in binary matroids. (English summary) **99h:05022**
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Kung, Joseph P. S. The geometric approach to matroid theory. (*see* **99b:01027**)
Läuchli, Peter ★ Matroide. (German. German summary) [Matroids] **99k:05052**
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— (*with* Oxley, James) On packing minors into connected matroids. (English summary) **99c:05044**
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Murota, Kazuo On the degree of mixed polynomial matrices. (English summary) **99g:05045**
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Oxley, James Matroids. (English summary) (*see* **99a:05001**)
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— (*with* Whittle, Geoff) On weak maps of ternary matroids. (English summary) **99f:05024**
— (*with* Vertigan, Dirk; Whittle, Geoff) On maximum-sized near-regular and $\sqrt[n]{1}$-matroids. (English summary) **99i:05058**
— *see also* **Lemos, Manoel, 99c:05044** *and* **Geelen, James F.; et al., 99f:05023**
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Rajpal, Sanjay On binary k-paving matroids and Reed-Muller codes. (English summary) **99g:05046**
Semple, Charles k-regular matroids. (English summary) **99e:05034**
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Sun, Liang (*with* Zhao, Jun[3]; Yang, Gang) Two results on binary matroids. (English and Chinese summaries) **99d:05018**
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— *see also* **Dress, Andreas W. M., 99k:05051**
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— *see also* **Geelen, James F.; et al., 99f:05023** *and* **Oxley, James; et al., 99i:05058**
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Zhao, Jun[3] A new characterization of binary matroids and modular pairs of hyperplanes. (Chinese. English and Chinese summaries)
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Jackson, Wen-Ai (*with* Martin, Keith M.) Combinatorial models for perfect secret sharing schemes. (English summary) **99j:94050**
Jaritz, Renate Geometric ordering in oriented matroids. **99b:52026**
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Kochol, Martin Partial intersection theorem and flows in abstract networks. (English summary) **99d:90046**
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Murota, Kazuo Fenchel-type duality for matroid valuations. (English summary) **99h:90085**
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Rodriguez, Jose Antonio (*with* Traldi, Lorenzo) (K, j)-domination and (K, j)-reliability. (English summary) **99d:68199**
Santa-Clara, Catarina (*with* Silva, Fernando C.) On infinite Goldie dimension. (English summary) **99h:16039**
Sarmiento, Irasema A characterisation of jointless Dowling geometries. (English summary) **99m:51020**
Schrader, Rainer (*with* Schulz, Andreas S.; Wambach, Georg) Base polytopes of series-parallel posets: linear description and optimization. (English summary) **99m:90118**
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Terhalle, Werner F. Coordinatizing R-trees in terms of universal c-trees. (English summary) **99g:05055**
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— *see also* **Rodriguez, Jose Antonio, 99d:68199**
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05B40 Packing and covering [see also 11H31, 52C15, 52C17]

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Billington, Elizabeth J. (*with* Lindner, C. C.) Maximum packings of bowtie designs. (English summary) **99c:05045**
Bouwkamp, C. J. ★ Tiling the surface of a cube by 12 identical pentominoes. (English summary) **99k:05054**
Ciucu, Mihai An improved upper bound for the 3-dimensional dimer problem. **99f:05026**
Deo, Narsingh *see* **Rajan, Kumar, 99j:05050**
Dubejko, Tomasz Infinite branched circle packings and discrete complex polynomials. **99h:05025**
Haemers, Willem H. Minimum resolvable coverings with small parallel classes. (English summary) **99i:05060**
Hill, Raymond *see* **Kolev, E., 99i:05061**
Hoffman, Dean G. (*with* Johnson, Peter D., Jr.) Covering numbers and list-colorings of $K_{m,n}$. (English summary) **99f:05027**
Hollmann, Henk D. L. (*with* Körner, János; Litsyn, Simon) Tiling Hamming space with few spheres. (English summary) **99a:05025**
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Kolev, E. (*with* Hill, Raymond) An improved lower bound on the covering number $K_2(9, 1)$. (English summary) **99i:05061**
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Lamken, E. R. (*with* Mills, William H.; Rees, Rolf S.) Resolvable minimum coverings with quadruples. (English summary) **99k:05055**
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Nurmela, Kari J. (*with* Östergård, Patric R. J.) New coverings of t-sets with $(t + 1)$-sets. (English summary) **99m:05047**
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Rajan, Kumar (*with* Deo, Narsingh) A parallel algorithm for generating disjoint 2-$(v, 4, 1)$ packings. (English summary) **99j:05050**
Rees, Rolf S. *see* **Lamken, E. R.; et al., 99k:05055**
Shalaby, Nabil (*with* Yin, Jian Xing) Nested optimal λ-packings and λ-coverings of pairs with triples. (English summary) **99k:05056**
— *see also* **Assaf, Ahmed M.; et al., 99d:05019**
Stanton, R. G. Coverings by triples with singular bipoints. (English summary) **99j:05051**
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Alon, Noga (*with* Ben-David, Shai; Cesa-Bianchi, Nicolò; Haussler, David) Scale-sensitive dimensions, uniform convergence, and learnability. (English summary) **99b:68154**
— (*with* Caro, Yair; Yuster, Raphael) Packing and covering dense graphs. (English summary) **99i:05156**
Bate, John Aubrey (*with* van Rees, G. H. J.) Lotto designs. (English summary) **99m:05037**
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05B99 None of the above, but in this section

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05E05 Symmetric functions

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Lewis, Jacqueline B. *see* **Macdonald, I. G., 99f:05116**

Items with secondary classifications in 05E05

Billings, Lora (*with* Curry, James H.; Phipps, Eric) Symmetric functions and exact Lyapunov exponents. (English summary) **99h:58132**
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Cherednik, Ivan Intertwining operators of double affine Hecke algebras. **99g:33036**
Curry, James H. *see* **Billings, Lora; et al., 99h:58132**

Damiani, E. (*with* D'Antona, Ottavio M.; Loeb, Daniel E.) The complementary symmetric functions: connection constants using negative sets. (English summary) **99g:05010**
D'Antona, Ottavio M. *see* **Damiani, E.; et al., 99g:05010**
Detlefsen, M. E. Generalized symmetric elements generated by a prime sequence. (English summary) **99f:06019**
Donkin, Stephen (*with* Erdmann, Karin) Tilting modules, symmetric functions, and the module structure of the free Lie algebra. **99e:20056**
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Fulton, William ★ Young tableaux. (English summary) **99f:05119**
Gasharov, Vesselin N. A short proof of the Littlewood-Richardson rule. (English summary) **99h:05122**
Halverson, Tom (*with* Ram, Arun) Murnaghan-Nakayama rules for characters of Iwahori-Hecke algebras of the complex reflection groups $G(r, p, n)$. (English summary) **99e:20007**
Hivert, Florent Analogues non-commutatifs et quasi-symétriques des fonctions de Hall-Littlewood, et modules de Demazure d'une algèbre enveloppante quantique dégénérée. (English and French summaries) [Noncommutative and quasisymmetric analogues of Hall-Littlewood functions, and Demazure modules of a degenerate quantized enveloping algebra] **99i:17018**
Hoffman, Michael E. The algebra of multiple harmonic series. (English summary) **99e:11119**
Kirillov, Alexander A., Jr. Lectures on affine Hecke algebras and Macdonald's conjectures. **99c:17015**
Kohnert, Axel (*with* Veigneau, Sébastien) Using Schubert basis to compute with multivariate polynomials. (English summary) **99e:05129**
Konvalina, John Generalized binomial coefficients and the subset-subspace problem. (English summary) **99g:05002**
Kuniba, Atsuo Quantum Jacobi Trudi formula and analytic Bethe ansatz. **99f:82022**
van Leijenhorst, D. C. How symmetric can a function be? (English summary) **99g:13037**
Lenart, Cristian The combinatorics of Steenrod operations on the cohomology of Grassmannians. (English summary) **99e:55032**
— (*with* Ray, Nigel) Hopf algebras of set systems. (English summary) **99m:16062**
Loeb, Daniel E. *see* **Damiani, E.; et al., 99g:05010**
Macdonald, I. G. Affine Hecke algebras and orthogonal polynomials. (English summary) **99f:33024**
— *see also* **Wilson, George, 99f:58107**
Manivel, Laurent Gaussian maps and plethysm. **99h:20070**
Méndez, Miguel A. Umbral shifts and symmetric functions of Schur type. **99i:05022**
Noumi, Masatoshi Affine Hecke algebras and Macdonald polynomials. (English summary) **99k:20032**
Okada, Soichi Applications of minor summation formulas to rectangular-shaped representations of classical groups. **99g:20081**
Okun'kov, Andreĭ (*with* Olshanskiĭ, Grigoriĭ) Shifted Schur functions. II. The binomial formula for characters of classical groups and its applications. (English summary) **99k:17023**
— BC-type interpolation Macdonald polynomials and binomial formula for Koornwinder polynomials. (English summary) **99h:33061**
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— *see also* **Halverson, Tom, 99e:20007**
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Schirmacher, Ernesto Log-concavity and the exponential formula. (English summary) **99k:05018**
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Veigneau, Sébastien *see* **Kohnert, Axel, 99e:05129**
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Wilson, George Collisions of Calogero-Moser particles and an adelic Grassmannian. **99f:58107**

05E10 Tableaux, representations of the symmetric group [see also 20C30]

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Kerov, Sergei (*with* Okun'kov, Andreĭ; Olshanskiĭ, Grigoriĭ) The boundary of the Young graph with Jack edge multiplicities. **99f:05120**
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van Leeuwen, Marc A. A. An analogue of jeu de taquin for Littelmann's crystal paths. (English summary) **99m:05163**
Martin, Paul Purdon (*with* Rollet, G.) The Potts model representation and a Robinson-Schensted correspondence for the partition algebra. (English summary) **99f:05121**
McAven, L. F. (*with* Butler, P. H.; Hamel, A. M.) Split bases and multiplicity separations in symmetric group transformation coefficients. (English summary) **99m:05164**
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Ram, Arun An elementary proof of Roichman's rule for irreducible characters of Iwahori-Hecke algebras of type A. **99h:05124**
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— Maximal degrees for Young diagrams in the (k, l) hook. (English summary) **99k:05160**
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Bessenrodt, Christine Algebra and combinatorics. **99f:20018**
— (*with* Olsson, J. B.) Branching of modular representations of the alternating groups. (English summary) **99j:20015**
— (*with* Olsson, J. B.) Residue symbols and Jantzen-Seitz partitions. (English summary) **99c:05014**
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Bruns, Winfried (*with* Conca, Aldo) KRS and powers of determinantal ideals. (English summary) **99e:13017**
Chan, Wendy Classification of trivectors in 6-D space. (English summary) **99j:15038**
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— A characterization of the dependence of the Riemannian metric on the curvature tensor by Young symmetrizers. (English summary) **99g:53020**
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Hanlon, Philip J. (*with* Stanley, Richard P.) A q-deformation of a trivial symmetric group action. (English summary) **99a:20008**
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— (*with* Kuniba, Atsuo; Nakanishi, Tomoki) Skew Young diagram method in spectral decomposition of integrable lattice models. II. Higher levels. (English summary) **99m:17018**
Kumar, Krishna (*with* Abello, James) On the complexity of some synthetic problems in combinatorial geometry. (English summary) **99f:68101**
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Lascoux, Alain Ordonner le groupe symétrique: pourquoi utiliser l'algèbre de Iwahori-Hecke? (English summary) [Why use the Iwahori-Hecke algebra to order the symmetric group?] **99m:20016**
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Martin, Paul Purdon (*with* Woodcock, D.) The partition algebras and a new deformation of the Schur algebras. **99g:16038**
Molev, A. I. Stirling partitions of the symmetric group and Laplace operators for the orthogonal Lie algebra. (English summary) **99k:17011**
Morita, Hideaki (*with* Yamada, Hiro-Fumi) Higher Specht polynomials for the complex reflection group $G(r, p, n)$. (English summary) **99k:20085**
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— (*with* Olshanskiĭ, Grigoriĭ) Shifted Schur functions. (Russian. Russian summary) **99f:05118**
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05E15 Combinatorial problems concerning the classical groups [see also 22E45, 33C80]

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— Upper and lower bounds for Kazhdan-Lusztig polynomials. (English summary) **99j:05193**
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Patel, Hemendra K. (*with* Hulsurkar, Suresh G.) On the graph on a Weyl group being an interval graph. (English summary) **99m:05166**
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Benkart, Georgia (*with* Lee Shader, Chanyoung; Ram, Arun) Tensor product representations for orthosymplectic Lie superalgebras. (English summary) **99k:17013**
Billey, Sara C. Pattern avoidance and rational smoothness of Schubert varieties. (English summary) **99i:14058**
Borovik, A. V. (*with* Gel'fand, Izrail' Moiseevich; White, Neil) Coxeter matroid polytopes. (English summary) **99d:05016**
Britten, D. J. (*with* Lemire, F. W.) The torsion free Pieri formula. (English summary) **99f:17005**
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Eriksson, Henrik (*with* Eriksson, Kimmo) Affine Weyl groups as infinite permutations. (English summary) **99d:20006**
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Okun'kov, Andreĭ Log-concavity of multiplicities with application to characters of U(∞). (English summary) **99a:22028**
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Reiner, Victor Non-crossing partitions for classical reflection groups. (English summary) **99f:06005**
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05E20 Group actions on designs, geometries and codes

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05E25 Group actions on posets and homology groups of posets [see also 06A09]

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Welker, Volkmar *see* **Herzog, Jürgen; et al., 99j:13010**
Woodcock, D. Cohen-Macaulay complexes and Koszul rings. **99g:13025**
Xie, Li Tong (*with* Liu, Gui Zhen; Xu, Bao Gang) On endo-homology of complexes of graphs. (English summary) **99c:05189**
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Bending, T. D. (*with* Fon-Der-Flaass, D.) Crooked functions, bent functions, and distance regular graphs. (English summary) **99h:05126**
Brouwer, Andries E. (*with* Koolen, J. H.; Riebeek, Remko Juriën) A new distance-regular graph associated to the Mathieu group M_{10}. (English summary) **99g:05184**
de Caen, D. The spectra of complementary subgraphs in a strongly regular graph. (English summary) **99g:05185**
Cameron, Peter J. A census of infinite distance-transitive graphs. (English summary) **99j:05195**
Caughman, John S., IV Spectra of bipartite P- and Q-polynomial association schemes. (English summary) **99i:05205**
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— (*with* Hiraki, Akira) On the non-existence of certain distance-regular graphs. **99m:05169**
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— Distance-regular graphs which support a spin model are thin. (English summary) **99i:05206**
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— (*with* Liebler, Robert A.; Praeger, Cheryl E.) Antipodal distance transitive covers of complete graphs. (English summary) **99e:05130**
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Hemmeter, Joe (*with* Ustimenko, V. A.; Woldar, Andrew J.) Orbital schemes of $B_3(q)$ acting on 2-dimensional totally isotropic subspaces. (English summary) **99f:05123**
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— Distance-regular subgraphs in a distance-regular graph. V. (English summary) **99f:05124**
— *see also* **Chen, Yue-Lan; et al., 99g:05186**; **Araya, Makoto, 99j:05194** *and* **Chen, Yue-Lan, 99m:05169**
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Jaeger, François (*with* Matsumoto, Makoto; Nomura, Kazumasa) Bose-Mesner algebras related to type II matrices and spin models. (English summary) **99f:05125**

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Koolen, J. H. The distance-regular graphs with intersection number $a_1 \neq 0$ and with an eigenvalue $-1-(b_1/2)$. (English summary) **99j:05197**
— *see also* **Brouwer, Andries E.; et al.**, **99g:05184**; **Chen, Yue-Lan; et al.**, **99g:05186** *and* **Hiraki, Akira**, **99m:05171**
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06–02 Research exposition (monographs, survey articles)

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Klaška, Jiří History of the number of finite posets. (English summary) **99k:06001**

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Hehner, Eric C. R. Boolean formalism and explanations. (English summary) **99a:00008**

06–04 Explicit machine computation and programs (not the theory of computation or programming)

Alex, Stelios *see* **Kehayopulu, Niovi**
Kehayopulu, Niovi (*with* Alex, Stelios) The determination of finite non-isomorphic ordered semigroups using turbo Pascal 6.0. (English summary)

Items with secondary classifications in 06–04

Sultanbekov, Foat F. Routines for investigation of concrete logics. (English summary) **99m:81021**

06–06 Proceedings, conferences, collections, etc.

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Coles, Richard J. (*with* Downey, Rodney G.; Khusainov, B. M.) On initial segments of computable linear orders. (English summary) **99m:03088**
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Kharazishvili, A. B. On almost rigid mathematical structures. (English and Polish summaries) **99m:03065**
Khusainov, B. M. *see* **Coles, Richard J.; et al.**, **99m:03088**
Lempp, Steffen *see* **Ambos-Spies, Klaus; et al.**, **99m:03087**
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Bernardinello, Luca (*with* Pomello, Lucia) A category of transition systems and its relations with orthomodular posets. (English summary) **99d:06001**
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Benkart, Georgia Down-up algebras and Witten's deformations of the universal enveloping algebra of $\mathfrak{sl}_2$. **99m:17014**
Boudabbous, Youssef Sur la détermination d'une relation binaire à partir d'informations locales. (English summary) [Determining a binary relation from local information] **99g:04001**
Brenti, Francesco Upper and lower bounds for Kazhdan-Lusztig polynomials. (English summary) **99j:05193**
Bubley, Russ (*with* Dyer, Martin E.) Faster random generation of linear extensions. (English summary) (*see* **99d:68011**)
Canfield, E. Rodney The size of the largest antichain in the partition lattice. (English summary) **99i:05017**
Dress, Andreas W. M. Towards a theory of holistic clustering. (English summary) **99g:92046**
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Felsner, Stefan (*with* Wernisch, Lorenz) Maximum k-chains in planar point sets: combinatorial structure and algorithms. (English summary) **99d:68102**
de Figueiredo, Celina Miraglia Herrera (*with* Gimbel, John; de Mello, Célia Picinin; Szwarcfiter, Jayme L.) Sources and sinks in comparability graphs. (English summary) **99b:05138**
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Haukkanen, Pentti (*with* Wang, Jun[1]) Euler's totient function and Ramanujan's sum in a poset-theoretic setting. (English summary) **99e:11006**
Heath, Lenwood S. (*with* Pemmaraju, Sriram V.) Stack and queue layouts of posets. (English summary) **99a:68132**
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Roux, Bernard Pierre Using an eraser or a pencil for two-processor scheduling. (English summary) **99i:90056**
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06A08 Shellable posets, Cohen-Macaulay posets [see also 52B20]

Hirabayashi, Ryuichi (*with* Ikebe, Yoshiko) Shellability of ordered complexes. (Japanese) (*see* **99b:90009**)
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Anderson, James Andrew The tensor product of a semilattice with a semilattice generated by a poset. (English summary) **99f:06006**
Bailey, Colin (*with* Oliveira, Joseph) An axiomization for cubic algebras. (English summary) **99d:06008**
Benkaraache, Taoufik L'ultramétrique inférieure maximum d'une dissimilarité à valeurs dans un inf-demi-treillis. (English and French summaries) [The subdominant ultrametric of a dissimilarity taking its values in a meet semilattice] **99k:06003**
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Blanchet-Sadri, F. On the semidirect product of the pseudovariety of semilattices by a locally finite pseudovariety of groups. (English and French summaries) **99d:20098**
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Kou, Hui The reflective and coreflective subcategories of the category of complete semilattices. (Chinese. English and Chinese summaries) **99h:18006**
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06A15 Galois correspondences, closure operators

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Gorlov, V. V. (*with* Pöschel, R.) Clones closed with respect to permutation groups or transformation semigroups. (English summary) **99k:08005**
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Just, Winfried (*with* Vojtáš, Peter) On matrix rapid filters. (English summary) **99a:04005**
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Kourie, Derrick G. (*with* Oosthuizen, G. Deon) Lattices in machine learning: complexity issues. (English summary) **99a:68143**
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McIntyre, D. W. (*with* Watson, W. Stephen) Basic intervals in the partial order of metrizable topologies. (English summary) **99c:54006**
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Cui, Hongbin (*with* Fan, Lei; Zheng, Chong-You) On induced mappings. (English summary)
Deiters, K. (*with* Erné, Marcel) Negations and contrapositions of complete lattices. (English summary) **99f:06007**
Erné, Marcel *see* **Deiters, K., 99f:06007**
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Nation, J. B. (*with* Pogel, Alex) The lattice of completions of an ordered set. (English summary) **99f:06008**
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Giacobazzi, Roberto (*with* Ranzato, Francesco) On the least complete extension of complete subsemilattices. (English summary) **99g:06006**
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Prediger, Susanne Simple concept graphs: a logic approach. (English summary) **99j:03025**
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06Bxx Lattices [see also 03G10]

06B05 Structure theory

Călugăreanu, Grigore Coatomic lattices and related abelian group topics. (English summary) **99m:06012**
Fernández López, Antonio[1] (*with* García Rus, Eulalia) Algebraic lattices and nonassociative structures. (English summary) **99a:06006**
García Rus, Eulalia *see* **Fernández López, Antonio[1], 99a:06006**
Grätzer, G. (*with* Hajnal, András) On isotone maps on a countable lattice. **99k:06005**
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Kozlov, Dmitry N. Order complexes of noncomplemented lattices are nonevasive. (English summary) **99m:06013**
Machala, František (*with* Pomp, Marek) Homomorphisms of contexts and isomorphisms of concept lattices. (English summary) **99a:06007**
— (*with* Slezák, Vladimír) Incidence structures and closure spaces. (English summary) **99f:06009**
— (*with* Pomp, Marek) Disjoint and complete unions of incidence structures. (English summary) **99a:06008**
Nguyen Duc Dat On Grätzer's problem. **99m:06014**
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Takách, G. On the sublattice-lattices of lattices. (English summary) **99a:06009**

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Bailey, Colin (*with* Oliveira, Joseph) An axiomization for cubic algebras. (English summary) **99d:06008**
Goldstern, Martin (*with* Shelah, Saharon) Order polynomially complete lattices must be large. (English summary) **99g:06010**
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Valtchev, Petko An algorithm for minimal insertion in a type lattice. (English summary) **99j:68011**

06B10 Ideals, congruence relations

Beran, Ladislav A characterization of distributive lattices by meanders. (English summary) **99a:06010**
Fried, Ervin Cover-preserving embeddings of distributive lattices. (English summary) **99g:06009**
Grätzer, G. (*with* Lakser, H.; Schmidt, E. T.) Congruence representations of join-homomorphisms of distributive lattices: a short proof. (English summary) **99e:06005**
— (*with* Schmidt, E. T.) Congruence-preserving extensions of finite lattices to sectionally complemented lattices. (English summary) **99j:06004**
Lakser, H. *see* **Grätzer, G.; et al., 99e:06005**
Paseka, Jan Simple quantales. (English summary) **99b:06008**
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Habib, Michel (*with* Nourine, Lhouari; Steiner, George) Gray codes for the ideals of interval orders. (English summary) **99a:06003**
Liu, Jun (*with* Xu, Yang) Filters and structure of lattice implication algebra.
Nourine, Lhouari *see* **Habib, Michel; et al., 99a:06003**
Pei, Li Wen *see* **Zhu, Yi Quan, 99g:04003**
Steiner, George *see* **Habib, Michel; et al., 99a:06003**
Swamy, U. M. (*with* Viswanadha Raju, D.) Fuzzy ideals and congruences of lattices. (English summary) **99j:04003**
Viswanadha Raju, D. *see* **Swamy, U. M., 99j:04003**
Wehrung, Friedrich A uniform refinement property for congruence lattices. (English summary) **99c:06007**
Weinberger, Arthur Embedding lattices of fuzzy subalgebras into lattices of crisp subalgebras. (English summary) **99b:08002**
Xu, Yang *see* **Liu, Jun**
Zhu, Yi Quan (*with* Pei, Li Wen) Prime ideals and congruence relations of fuzzy lattices. (English summary) **99g:04003**

06B15 Representation theory

Brignole, Diana M. (*with* Entizne, Rosana V.) Boolean elements and representation of residuated lattices. (Spanish. Spanish summary) **99f:06011**
Dorfer, Gerhard Lattice-extensions by means of convex sublattices. (English summary) **99c:06008**
Entizne, Rosana V. *see* **Brignole, Diana M., 99f:06011**
Haviar, Miroslav *see* **Ploščica, Miroslav, 99g:06011**
Ploščica, Miroslav (*with* Haviar, Miroslav) On order-polynomial completeness of lattices. (English summary) **99g:06011**
Repnitskiĭ, V. B. On lattice-universal varieties of algebras. (Russian) **99a:06011**

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Reinhold, Jürgen Semilattices of ordered compactifications. (English summary) **99i:54026**
Šešelja, Branimir (*with* Tepavčević, Andreja) On generation of finite posets by meet-irreducibles. (English summary) **99m:06002**
Tepavčević, Andreja *see* **Šešelja, Branimir, 99m:06002**
Tůma, Jiří *see* **Ploščica, Miroslav; et al., 99j:06005**
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06B20 Varieties of lattices

Buldas, Ahto Graphs and lattice varieties. (English and Estonian summaries) **99c:06009**
Szylicka, Z. Hyperidentities of some generalizations of lattices. (English summary) **99m:06015**

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Bredikhin, D. A. Representations of lattice terms by means of graphs. (English summary) **99m:05154**
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06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

Antonov, Vladimir A. (*with* Nazyrova, Yu. A.) Layer-projective lattices. I. (Russian. Russian summary) **99d:06010**
Nazyrova, Yu. A. *see* **Antonov, Vladimir A., 99d:06010**

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Ploščica, Miroslav (*with* Tůma, Jiří; Wehrung, Friedrich) Congruence lattices of free lattices in non-distributive varieties. **99j:06005**
Stumme, Gerd Free distributive completions of partial complete lattices. (English summary) **99b:06007**
Tůma, Jiří *see* **Ploščica, Miroslav; et al., 99j:06005**
Wehrung, Friedrich *see* **Ploščica, Miroslav; et al., 99j:06005**

06B30 Topological lattices, order topologies [see also 06F30, 22A26, 54F05, 54H12]

Bai, Shi Zhong Q-convergence of ideals in fuzzy lattices and its applications. (English summary) **99a:06012**
Riečanová, Zdenka Lattices and quantum logics with separated intervals, atomicity. (English summary) **99f:06012**

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Chung, Si-Kit On positive total sets. (English summary) **99m:46050**
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Xu, Xiao Quan (*with* Liu, Ying Ming) The upper topology and the interval topology on a complete lattice. (Chinese. Chinese summary)

06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]

Alvarez-Manilla, M. (*with* Edalat, Abbas; Saheb-Djahromi, N.) An extension result for continuous valuations. (English summary) (*see* **99i:00013**)
Chen, Yi Xiang Cartesian closedness of the category of locally algebraic lattices and stable mappings. (Chinese. English and Chinese summaries) **99i:06004**
— Semilattices and representations of domains. (Chinese. English and Chinese summaries) **99i:06005**
Edalat, Abbas (*with* Heckmann, Reinhold) A computational model for metric spaces. (English summary) **99b:06009**
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Lawson, Jimmie D. Spaces of maximal points. (English summary) **99c:06010**
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Zhao, Dong Sheng Semicontinuous lattices. (English summary) **99d:06011**

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Bimonte, G. *see* **Balachandran, A. P.; et al., 99b:58022**
Bukatin, Michael A. (*with* Scott, Joshua S.) Towards computing distances between programs via Scott domains. (English summary) **99a:68117**
— (*with* Shorina, Svetlana Yu.) Partial metrics and co-continuous valuations. (English summary) **99g:68125**
Edalat, Abbas When Scott is weak on the top. (English summary) **99c:68166**
— (*with* Negri, Sara) The generalized Riemann integral on locally compact spaces. (English summary) **99k:28005**
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Henriksen, Melvin (*with* Kopperman, Ralph; Mack, John E.; Somerset, D. W. B.) Joincompact spaces, continuous lattices, and C^*-algebras. (English summary) **99c:54004**
Jung, Achim (*with* Sünderhauf, Philipp) Uniform approximation of topological spaces. (English summary) **99b:54038**
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06C05 Modular lattices, Desarguesian lattices

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Vernikov, Boris M. Quasi-identities implying modularity and related conditions in lattices of overcommutative semigroup varieties. (English summary) **99m:08022**

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Kemkhadze, S. (*with* Rostomashvili, Z.) General geometric lattices. (English summary)
Rostomashvili, Z. *see* **Kemkhadze, S.**
Zolotarev, A. P. On change and distributivity numbers in geometric lattices. (Russian. Russian summary) **99m:06017**

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Oxley, James (*with* Whittle, Geoff) On weak maps of ternary matroids. (English summary) **99f:05024**
— (*with* Vertigan, Dirk; Whittle, Geoff) On maximum-sized near-regular and $\sqrt[n]{1}$-matroids. (English summary) **99i:05058**
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Bărbăcioru, Cătălin (*with* Bărbăcioru, Carmen) Pseudocomplemented distributive lattices with finite co-irreducible dimension. (English summary)
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Beran, Ladislav (*with* Salvati, Simonetta) Boolean algebras revisited. (Italian summary) **99e:06008**
Cattaneo, Gianpiero A unified framework for the algebra of unsharp quantum mechanics. (English summary) **99c:81009**
De Lucia, Paolo (*with* De Simone, Anna) Measures on a weakly orthocomplete OMP with a filtering sub-OMP. (English summary) **99k:03047**
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Pavičić, Mladen (*with* Megill, Norman D.) Quantum and classical implication algebras with primitive implications. (English summary) **99k:03048**
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06C20 Complemented modular lattices, continuous geometries

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Qin, Ke Yun (*with* Xu, Yang) The category of fuzzy lattice implication algebras. (Chinese. English and Chinese summaries)
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06D05 Structure and representation theory

Berman, Joel D. (*with* Bordalo, G. Hauser) Finite distributive lattices and doubly irreducible elements. (English summary) **99c:06012**
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Buşneag, Dumitru A representation theorem for maximal lattice of quotients.
Chajda, Ivan (*with* Ploščica, Miroslav) Duality of bounded distributive q-lattices. (English summary) **99i:06010**
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Koshevoĭ, G. A. Distributive lattices and products of capacities. **99i:06011**
Larson, Rebecca N. Embeddings of finite distributive lattices into products of chains. **99a:06014**
Laslo, Graţiela (*with* Fărcaş, Gh.) On non-commutative distributive lattices of type (G). **99f:06016**
Liu, Wei Ping (*with* Jia, Wu) The topological representation and properties of distributive lattices with the disjunctive property. (Chinese. English and Chinese summaries)
Melkonyan, V. G. Quasi-identities and conditional super-identities of distributive lattices. (Russian. Armenian summary)
— *see also* **Movsisyan, Yu. M.**
Movsisyan, Yu. M. (*with* Melkonyan, V. G.) Superidentities of distributive lattices. (Russian. Armenian summary)
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Wild, Marcel Three notes on distributive lattices. **99b:06011**

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Ésik, Zoltán A Cayley theorem for ternary algebras. (English summary) **99m:06023**
Fried, Ervin Cover-preserving embeddings of distributive lattices. (English summary) **99g:06009**
Gaitán, H. Priestley duality for demi-p-lattices. (English summary) **99a:06015**
Gartside, P. M. *see* **Knight, R. W.; et al., (99a:54002)**
Grätzer, G. (*with* Lakser, H.; Schmidt, E. T.) Congruence representations of join-homomorphisms of distributive lattices: a short proof. (English summary) **99e:06005**
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Yu, Chun Hai (*with* Xie, Yan Bo) The structure of pseudocomplements in molecular lattices. (Chinese. English and Chinese summaries) **99h:06005**

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Li, Yong Ming (*with* Li, Zhihui) Complete surjections and complete epimorphisms over completely distributive lattices. (English summary) **99i:06012**
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Wang, Guo Jun[1] Implicative lattices and an extension of the Stone representation theorem. (Chinese. Chinese summary)
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Stumme, Gerd Free distributive completions of partial complete lattices. (English summary) **99b:06007**
Wang, Hong The refinement of a semitopological order on L and its properties. (Chinese. English and Chinese summaries)
— The image and inverse image of a syntopogenous structure on a completely distributive lattice. (Chinese. English and Chinese summaries)
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— (*with* Zhao, Bin[1]) A generalization of Lawson-Hoffmann duality. (Chinese. English and Chinese summaries)

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Gaitán, H. Priestley duality for demi-p-lattices. (English summary) **99a:06015**
Gramaglia, Hector (*with* Vaggione, Diego) A note on distributive double p-algebras. (English summary) **99m:06021**
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Xie, Yan Bo *see* **Yu, Chun Hai, 99h:06005**
Yu, Chun Hai (*with* Xie, Yan Bo) The structure of pseudocomplements in molecular lattices. (Chinese. English and Chinese summaries) **99h:06005**

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Da Silva, Ilda P. F. *see* **Bordalo, G. Hauser, 99b:06010**
El-Assar, S. (*with* Atallah, Mikhail J.) On the distributive double p-algebras whose congruence lattices are chains. (English and Arabic summaries) **99k:08003**
Heleyová, Zuzana Tolerances on semilattices. (English summary) **99m:06008**
Oostra V., Arnold Weak notions of complement. (Spanish. Spanish summary) **99m:06010**

06D20 Heyting algebras [see also 03Gxx]

Abad, Manuel (*with* Díaz Varela, J. Patricio; Rueda, L. A.; Suardíaz, A. M.) A note on the equational bases for subvarieties of linear symmetric Heyting algebras. (English summary) (*see* **99a:00040**)
Díaz Varela, J. Patricio *see* **Abad, Manuel; et al., (99a:00040)**
He, Wei[1] Spectrums of Heyting algebras. (English and Chinese summaries) **99g:06015**
Miller, William David Quasi-Heyting algebras: a new class of lattices. (English summary) **99i:06013**
Rueda, L. A. *see* **Abad, Manuel; et al., (99a:00040)**
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— (*with* Pultr, A.) A new look at pointfree metrization theorems. (English summary) **99g:54024**
Bărbăcioru, Carmen *see* **Bărbăcioru, Cătălin**
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Buşneag, Dumitru A representation theorem for maximal Hertz algebra of quotients. (English summary)
Celani, Sergio A. A note on $\mathcal{K}_3$-algebras. (English summary) **99i:03082**
Khomich, V. I. On the embeddability of some generalizations of pseudo-Boolean algebras. (Russian) **99c:03102**
Kracht, Marcus On extensions of intermediate logics by strong negation. (English summary) **99m:03050**
Leguizamón, C. A. (*with* Zaretzky, A. N.) Lattices due to increasing low energy relational processes. (English summary) **99e:92003**
Li, Yong Ming (*with* Wang, Guo Jun[1]) Localic Katětov-Tong insertion theorem and localic Tietze extension theorem. (English summary) **99b:54024**
Picado, J. Weil nearness spaces. (English summary) **99e:54008**
Pultr, A. (*with* Sichler, J.) Finite commutative monoids of open maps. (French summary) **99g:20115**
— *see also* **Banaschewski, Bernhard, 99g:54024**
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06D25 Post algebras [see also 03G20]

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Głazek, Kazimierz A certain Galois connection and weak automorphisms. (English summary) **99m:08008**
Monteiro, Luiz F. (*with* Abad, Manuel; Savini, Sonia; Sewald, Julio) Finite free generating sets. (English summary) **99i:08004**
Priestley, H. A. Varieties of distributive lattices with unary operations. I. (English summary) **99e:06007**
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06D30 De Morgan algebras, Łukasiewicz algebras [see also 03G20]

Bianco, Estela (*with* Ziliani, Alicia) Implicative modal semilattices. (English summary) **99a:06016**
Brzozowski, J. A. (*with* Lou, J. J.; Negulescu, R.) A characterization of finite ternary algebras. (English summary) **99d:06014**
Ésik, Zoltán A Cayley theorem for ternary algebras. (English summary) **99m:06023**
Figallo, Aldo V. Q-operators on implicative Łukasiewicz algebras. (English summary) **99i:06014**
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Iorgulescu, Afrodita Connections between MV_n algebras and n-valued Łukasiewicz-Moisil algebras. I. (English summary) **99g:06016**
Li, Ai Ping Prime ideals and congruence relations of soft algebras. (Chinese. English and Chinese summaries)
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Luo, Congwen Stonean kernels of MS-algebras. (English summary) **99k:06007**
Mundici, Daniele Tensor products and the Loomis-Sikorski theorem for MV-algebras. (English summary) **99h:06006**
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Varlet, J. C. (*with* Vaz de Carvalho, Júlia) Axioms in the variety of double MS-algebras. II. (English summary) **99d:06015**
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— A necessary and sufficient condition of a discrete soft algebra is a w-soft algebra. (English summary) **99a:06019**
Zhang, Kun Long (*with* Hirota, Kaoru; Nakagawa, Yukiko) On Kleene algebra with De Morgan algebra with centers. (English summary) **99b:06012**
Zhu, Yi Quan (*with* Pei, Li Wen) W-fuzzy lattices and W-ideals. (Chinese. English and Chinese summaries)
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Celani, Sergio A. A note on $\mathscr{K}_3$-algebras. (English summary) **99i:03082**
Chovanec, Ferdinand (*with* Rybáriková, Eva) Ideals in D-posets of fuzzy sets. (English summary) **99h:03039**
Díaz Varela, J. Patricio Free n-value Post algebras over a poset. (English summary) **99c:06014**
Fidel, Manuel M. Semantic models of modal logic in n-valued logics. (English summary) **99m:03129**
Monteiro, Luiz F. (*with* Abad, Manuel; Savini, Sonia; Sewald, Julio) Finite free generating sets. (English summary) **99i:08004**
Rachůnek, Jiří DRl-semigroups and MV-algebras. **99m:06030**
— MV-algebras are categorically equivalent to a class of $\mathscr{DRI}_{1(l)}$-semigroups. (English summary) **99i:06018**
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Wild, Marcel Three notes on distributive lattices. **99b:06011**

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Beran, Ladislav A characterization of distributive lattices by meanders. (English summary) **99a:06010**
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06Exx Boolean algebras (Boolean rings) [see also 03G05]

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06E05 Structure theory

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Juhász, István (*with* Shelah, Saharon) On the cardinality and weight spectra of compact spaces. II. (English summary) **99c:06015**
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Podzorov, S. Yu. Restricted completeness of extended Boolean algebras. (English summary) **99c:03058**
Rosłanowski, Andrzej (*with* Shelah, Saharon) Cardinal invariants of ultraproducts of Boolean algebras. (English summary) **99g:03033**
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06E10 Chain conditions, complete algebras

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Hager, Anthony W. α-cut-complete Boolean algebras. (English summary) **99m:06025**
He, Wei[1] Spectrums of Heyting algebras. (English and Chinese summaries) **99g:06015**
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Koubek, V. (*with* Sichler, J.) Equimorphy in varieties of distributive double p-algebras. (English summary) **99g:06014**
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06E20 Ring-theoretic properties [see also 16E50, 16G30]

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Melter, Robert A. (*with* Rudeanu, Sergiu) Voronoĭ diagrams for Boolean algebras. (English summary)
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Smith, Patrick F. *see* **Galvão, M. Luísa, 99k:06006**
Song, Seok-Zun (*with* Hong, Sung-Min; Jun, Young Bae; Kim, Seon Jeong) Linear operators that preserve Boolean ranks. (English summary) **99m:15001**
Waldschaks, Gerd Extensions of group-valued modular maps. (English summary) **99c:28033**

06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)

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06E30 Boolean functions [see also 94C10]

Boros, Endre (*with* Ibaraki, Toshihide; Makino, Kazuhisa) Error-free and best-fit extensions of partially defined Boolean functions. (English summary) **99d:06017**
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Feigelson, Aaron (*with* Hellerstein, Lisa) The forbidden projections of unate functions. (English summary) **99a:06020**
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Parfenov, Yu. M. (*with* Ryabinin, I. A.) Boolean differences for monotone truth functions. (Russian. Russian summary) **99h:06007**
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— On the average time for the computation of the values of Boolean functions. (Russian. Russian summary) **99f:68087**
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Cheushev, Vasily (*with* Shmerko, V. P.; Simovici, Dan A.; Yanushkevich, Svetlana) Functional entropy and decision trees. (English summary) (*see* **99i:03025**)
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Damm, Carsten A note on spectral lower bound arguments for decision trees. (English summary)
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Dunne, Paul E. Ceilings of monotone Boolean functions. (English summary) **99f:68091**
Eiter, Thomas (*with* Ibaraki, Toshihide; Makino, Kazuhisa) On disguised double Horn functions and extensions. (English summary) (*see* **99f:68011**)
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Hsiang, Jieh (*with* Huang, Guan Shieng) Some fundamental properties of Boolean ring normal forms. (English summary) **99g:06018**
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Ratsa, M. F. *see* **Covalgiu, O.**, **99b:03037** *and* **Malaĭ, V. P.**, **99f:03019**
Rudeanu, Sergiu On general and reproductive solutions of finite equations. (English summary) **99m:08013**
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06E99 None of the above, but in this section

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Brunner, N. (*with* Howard, Paul E.; Rubin, Jean E.) Choice principles in Węglorz' models. (English summary) **99e:03033**
Cubillo, Susana On some inexact relations in probabilized Boolean algebras. (English summary) **99c:03029**
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06Fxx Ordered structures

06F05 Ordered semigroups [see also 20Mxx]

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— (*with* De Miguel, Juan Ramón; Induráin Eraso, Esteban) Universal semigroups in additive utility. (English summary) **99b:06013**
Cao, Yong Lin The structure of semilattices of rectangular unipotent monoids. (Chinese. English and Chinese summaries)
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Gao, Zhen Lin Semilattice congruences of partially ordered semigroups. (Chinese. English and Chinese summaries) **99f:06018**
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Jing, Feng Jie (*with* Chen, Hui[1]) The decomposition of a class of partially ordered abundant semigroups. (Chinese. English and Chinese summaries) **99m:06027**
Jun, Young Bae (*with* Lajos, Sándor) Γ-filters and semilattice Γ-congruences in po-Γ-semigroups. (English summary) **99i:06015**
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— (*with* Lepouras, George) On right regular and right duo poe-semigroups. (English summary) **99d:06020**
— Note on chains of simple semigroups in ordered semigroups. (English summary) **99i:06016**
— (*with* Tsingelis, Michael) On weakly commutative ordered semigroups. **99b:06014**
— (*with* Tsingelis, Michael) On separative ordered semigroups. **99c:06017**
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— (*with* Jung, Jae Hong) On left regular po-semigroups. (English summary) **99d:06021**
— On characterizations of some classes of po-semigroups. (English summary) **99i:06017**
— (*with* Kwon, Young In) On completely regular and quasi-completely regular ordered semigroups. (English summary) **99k:06009**
— *see also* **Kwon, Young In**, **99m:06029**
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Rachůnek, Jiří DR*l*-semigroups and MV-algebras. **99m:06030**
— MV-algebras are categorically equivalent to a class of $\mathcal{DRI}_{l(i)}$-semigroups. (English summary) **99i:06018**
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— (*with* Guo, Xiao Jiang) On Kehayopulu's problems. (Chinese. English and Chinese summaries) **99g:06022**

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Huang, Wen Ping (*with* Liu, Fang[3]) On the adjoint semigroups of p-separable BCI-algebras. (English summary) **99k:06011**
Jayaram, C. (*with* Johnson, E. W.) Dedekind lattices. (English summary) **99b:06015**
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Karazeris, Panagis Gabriel topologies on coherent quantales. (English summary) **99e:18004**
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Paseka, Jan Simple quantales. (English summary) **99b:06008**
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Jayaram, C. (*with* Johnson, E. W.) Dedekind lattices. (English summary) **99b:06015**
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Nakkar, H. M. (*with* Al-Khouja, E. A.) On Laskerian lattices and Q-lattices. **99c:06018**

06F15 Ordered groups [see also 20F60]

Černák, Štefan On the maximal Dedekind completion of a half partially ordered group. (English summary) **99c:06019**
— Cantor extension of a half lattice ordered group. (English summary) **99f:06020**
Chen, Yuanqian (*with* Conrad, Paul) Special-valued subgroups of lattice-ordered groups. (English summary) **99j:06009**
Conrad, Paul *see* **Chen, Yuanqian, 99j:06009**
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— (*with* Csontóová, Mária) Affine completeness of projectable lattice ordered groups. (English summary) **99m:06032**
— Convex isomorphisms of Archimedean lattice ordered groups. (English summary) **99b:06016**
Lu, Bing Xin (*with* Zhu, Zuo Tong) Highly transitive representation on **Q** for the free product of countable right ordered groups. (English and Chinese summaries) **99m:06033**
Medvedev, Nikolai Ya. On automorphisms of the lattice of quasivarieties of lattice-ordered groups. (English summary) **99d:06022**
— Partial right orders on periodic extensions of abelian groups. (English summary) **99m:06034**
Qin, Yong (*with* Zhu, Zuo Tong) Weak transitivity of lattice-ordered permutation groups. (Chinese. English and Chinese summaries) **99b:06017**
Tong, Dao Rong The Galois connection between weak torsion and sub-product classes of l-groups. (English summary) **99i:06019**
Wang, Li Min[3] (*with* Yang, Sheng Liang) Torsion-free radicals of lattice-ordered groups. (Chinese. English and Chinese summaries) **99d:06023**
Wei, Jia Qun (*with* Zhu, Zuo Tong) Transitive lattice-ordered permutation groups. (Chinese. English and Chinese summaries) **99f:06021**
Xu, He Xian (*with* Zhu, Zuo Tong) Universal mappings of wreath products of lattice-ordered groups. (Chinese. English and Chinese summaries)
Yang, Sheng Liang *see* **Wang, Li Min[3], 99d:06023**
Zheleva, S. Representation of right cyclically ordered groups as groups of automorphisms of a cyclically ordered set. (English summary)
Zhu, Zuo Tong *see* **Qin, Yong, 99b:06017**; **Wei, Jia Qun, 99f:06021**; **Lu, Bing Xin, 99m:06033** *and* **Xu, He Xian**

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Kontolatou, Angeliki Approximation theorems for ordered groups with quasi-divisors theory. (Greek. English summary) (*see* **99a:00037**)
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Miller, Chris (*with* Starchenko, Sergei) A growth dichotomy for o-minimal expansions of ordered groups. (English summary) **99e:03025**
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06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [see also 46A40]

Börger, Reinhard Non-existence of a cogenerator for ordered vector spaces. **99m:06035**
Ettinger, J. Mark Finitely presented partially ordered abelian groups. (English summary) **99a:06023**
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Kovář, Tomáš On normal autometrics in commutative lattice ordered groups. (English summary) **99b:06018**
Pardo, E. On the representation of simple Riesz groups. (English summary) **99h:06008**
Wehrung, Friedrich Non-measurability properties of interpolation vector spaces. (English summary) **99g:06023**

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Chen, Yuanqian (*with* Conrad, Paul) Special-valued subgroups of lattice-ordered groups. (English summary) **99j:06009**
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De Lucia, Paolo (*with* Morales, Pedro) Decomposition of group-valued measures on orthoalgebras. (English summary) **99m:28028**
De Miguel, Juan Ramón *see* **Candeal-Haro, Juan Carlos; et al., 99b:06013**
Hager, Anthony W. α-cut-complete Boolean algebras. (English summary) **99m:06025**
Induráin Eraso, Esteban *see* **Candeal-Haro, Juan Carlos; et al., 99b:06013**
Jakubík, Ján Lexicographic product decompositions of cyclically ordered groups. **99m:06031**
Kaplan, Samuel On unbounded order convergence. (English summary) **99e:46006**
Lavrič, Boris Order convergence of order bounded sequences in Riesz spaces. (English summary) **99d:46004**
Martínez-Legaz, Juan-Enrique (*with* Singer, Ivan) On conjugations for functions with values in extensions of ordered groups. (English summary) **99k:49076**
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Wehrung, Friedrich Norm-closed intervals of norm-complete ordered abelian groups. (English summary) **99k:46028**

06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80.}

Gao, Ting On the structure of a radical of lattice-ordered rings. (English and Chinese summaries) **99g:06024**
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Larson, Suzanne f-rings in which every maximal ideal contains finitely many minimal prime ideals. **99c:06020**
Sun, Da Jun (*with* Huang, Wen Ping) Invertible elements in adjoint semigroups of BCI-algebras. (English summary) **99h:06009**
Wähling, Heinz Ordered nearfields. **99c:06021**

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Il'in, S. N. Invertibility of matrices over ordered algebraic systems. (Russian. Russian summary) **99g:15005**
Lyubetskiĭ, V. A. Transfer theorems and the algebra of modal operators. (Russian. Russian summary) **99a:03061**
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Mounier, Hugues *see* **Fliess, Michel, 99f:93011**
Quadrat, Jean-Pierre (*with* Max-Plus Working Group) Min-plus linearity and statistical mechanics. (English summary) **99b:60105**
Sun, Da Jun (*with* Huang, Wen Ping) Invertible elements in the adjoint semigroups of BCI-algebras. (Chinese. English and Chinese summaries) **99g:06026**

06F30 Topological lattices, order topologies [see also 06B30, 22A26, 54F05, 54H12]

Liu, Xiao Shi A discussion of supremum properties of some cardinal functions on topological molecular lattices. (Chinese. English and Chinese summaries)
Meng, Guang Wu *see* **Shi, Fu Gui, 99b:06019**
Shi, Fu Gui (*with* Meng, Guang Wu) Topologies in pointwise quasi-uniform molecular lattices. (Chinese. English and Chinese summaries) **99b:06019**
Tushnits'kiĭ, Ĭ. Ya. Localization of topologies on distributive lattices. (Ukrainian. English and Russian summaries) **99m:06036**
Zhao, Bin[1] Inverse systems in topological molecular lattices and their inverse limits. (Chinese. English and Chinese summaries) **99h:06010**

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Chen, Yi Xiang Paracompactness on topological molecular lattices. (English summary)
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Kessler, Peter Hausdorff topological fuzzy lattices.
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Li, Sheng-Gang (*with* Yang, Lining) Minimal T_3 topological molecular lattices. (English summary)
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Mao, Sheng Rong (*with* Wang, Bing Xiu) NF-continuity of order-homomorphisms. (Chinese. English and Chinese summaries)
Mislove, Michael W. Topology, domain theory and theoretical computer science. (English summary) **99i:54046**
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Richmond, Thomas A. Quasiorders, principal topologies, and partially ordered partitions. (English summary) **99h:06003**
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06F35 BCK-algebras, BCI-algebras [see also 03G25]

Ahmad, B. (*with* Khalid, H. M.) Regular fuzzy ideals in BCI-algebras. (English summary) **99m:06037**
— *see also* **Khalid, H. M., 99e:06010**
Ahn, Sun Shin (*with* Kim, Hee Sik) A note on Noetherian and Artinian BCK-algebras. (English summary)
— *see also* **Dvurečenskij, Anatolij; et al., 99i:06020**
Bolurian, M. (*with* Hasankhani, A.) Hyper BCK-algebra. (English summary) **99m:06038**
Chen, Zhao Mu *see* **Huang, Yi Sheng[2], 99a:06024** *and* **Lin, Da Hua**
Dar, Karamat Hussain L-invariants of a BCI-algebra. (English summary) **99e:06009**
Dudek, Wiesław A. (*with* Zhang, Xiao Hong[1]) On ideals and congruences in BCC-algebras. (English summary) **99d:06024**

Dvurečenskij, Anatolij (*with* Ahn, Sun Shin; Kim, Hee Sik) The Ker-Coker sequence in BCI-algebras. **99i:06020**
— (*with* Kim, Hee Sik) Connections between BCK-algebras and difference posets. (English summary) **99j:06010**
Guo, Tuo Ying p-semisimple BCI-algebras of n-type. (English summary) **99j:06011**
Hasankhani, A. (*with* Zahedi, M. M.; Talaie, M.) Fuzzy congruence relations on a BCK-algebra. (English summary) **99b:06020**
— *see also* **Bolurian, M., 99m:06038**
Hong, Sung-Min (*with* Jun, Young Bae) Anti-fuzzy ideals in BCK-algebras. (English summary) **99h:06011**
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Hoo, C. S. Molecules and linearly ordered ideals of MV-algebras. (English summary) **99c:06022**
Huang, Wen Ping (*with* Sun, Da Jun) Periodic BCI-algebras and subgroups of adjoint monoids of BCI-algebras. (English summary) **99d:06025**
— (*with* Liu, Fang[3]) On the adjoint semigroups of p-separable BCI-algebras. (English summary) **99k:06011**
— *see also* **Sun, Da Jun, 99g:06026** *and* **Roh, Eun Hwan; et al.**
Huang, Yi Sheng[2] (*with* Chen, Zhao Mu) Multiply implicative BCK-algebras. (English summary) **99a:06024**
Hur, Chang Kyu (*with* Kim, Hee Sik) BCK-algebras of extended pogroupoid[s]. (English summary) **99m:06039**
Jun, Young Bae (*with* Meng, Jie; Xin, Xiao Long) Anti-fuzzy BCK-filters. (English summary) **99b:06021**
— (*with* Roh, Eun Hwan; Wei, Shi Min) Fuzzy $(*)$-ideals in BCI-algebras. (English summary) **99g:06025**
— (*with* Roh, Eun Hwan; Meng, Jie; Xin, Xiao Long) Fuzzy dual ideals in BCK-algebras. II. (English summary)
— A characterization of fuzzy commutative $\mathcal{I}$-ideals in BCI-semigroups. (English summary) **99a:06025**
— (*with* Hong, Sung-Min) Fuzzy maximal and complete fuzzy normal BCK-filters. (English summary) **99i:06021**
— (*with* Xin, Xiao Long) On p-semisimple BCI-algebras and pomonoids. (English summary) **99c:06023**
— (*with* Roh, Eun Hwan; Wei, Shi Min; Zhu, Yi Quan) Some ideals in BCI-algebras. II. (English summary) **99d:06026**
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Khalid, H. M. (*with* Ahmad, B.) Fuzzy prime ideals in BCK-algebras. (English summary) **99e:06010**
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Kondo, Michiro Duality theorem for p-semisimple BCI-algebra. (English summary) (*see* **99a:20001**)
— Conditions for $L(X)$ to be an ideal in BCI-algebras. (English summary) **99a:06026**
— Duality theorem for p-semisimple BCI-algebra. (English summary) **99a:06027**
Kuresh, S. W. (*with* Jun, Young Bae) Anti-fuzzy ordered filters in adjoint semigroups of BCK-algebra. (English summary) **99a:06028**
Kwon, Young In (*with* Lee, Sang Keun) On the left right weakly prime ideals of po-Γ-semigroups. (English summary) **99m:06040**
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Lin, Da Hua (*with* Chen, Zhao Mu) Fixed points of BCI-algebras. (Chinese. English and Chinese summaries)
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Meng, Jie (*with* Jun, Young Bae; Xin, Xiao Long) Prime ideals in commutative BCK-algebras. (English summary) **99f:06023**
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— (*with* Jun, Young Bae; Huang, Wen Ping) On prime dual ideals in BCK-algebras. II.
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— *see also* **Jun, Young Bae; et al., 99d:06026**; **99g:06025**; **99k:06012**
Sakuragi, Takeshi On derived radicals and derived prime quasi-ideals in a commutative BCK-algebra. (English summary) **99e:06011**
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Sun, Da Jun (*with* Huang, Wen Ping) Invertible elements in the adjoint semigroups of BCI-algebras. (Chinese. English and Chinese summaries) **99g:06026**
— *see also* **Huang, Wen Ping, 99d:06025**
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Xin, Xiao Long (*with* Meng, Jie; Kim, Hee Sik; Jun, Young Bae) On free d-algebras. (English summary) **99g:06027**
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Xu, Jingming (*with* Zhang, Xiao Hong[1]) On anti-grouped ideal in BZ-algebra. (English and Chinese summaries)
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Zhang, Fu Lin Generalized a-associative BCI-algebras. (Chinese. English and Chinese summaries) **99g:06028**
Zhang, Qun Clutching a normal BCI-algebra to a BCK-algebra. (English summary)
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Zhu, Yi Quan *see* **Jun, Young Bae; et al., 99d:06026**

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Figallo, Aldo V. Q-operators on implicative Łukasiewicz algebras. (English summary) **99i:06014**
Hoo, C. S. Some fuzzy concepts of BCI, BCK and MV-algebras. (English summary) **99h:03042**
Lee, Dong-Soo[1] (*with* Ryu, Dong Neun) Profinite topological BCK-algebra. (English summary) **99h:54053**
Rachůnek, Jiří MV-algebras are categorically equivalent to a class of $\mathcal{DR}l_{1(i)}$-semigroups. (English summary) **99i:06018**
Ryu, Dong Neun *see* **Lee, Dong-Soo[1], 99h:54053**

06F99 None of the above, but in this section

Testov, V. A. On an analogue of the fundamental theorem of arithmetic in ordered groupoids. (Russian. Russian summary) **99d:06027**
Wille, Rudolf (*with* Wille, Uta) Uniqueness of coordinatizations of ordinal structures. **99c:06024**
Wille, Uta *see* **Wille, Rudolf, 99c:06024**

Items with secondary classifications in 06F99

Ahn, Sun Shin Permanents over inclines and other semirings. (English summary) **99g:15007**
Hartonas, Chrysafis Duality for lattice-ordered algebras and for normal algebraizable logics. (English summary) **99c:03104**

08–XX General algebraic systems

08–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 08–01

Bergman, George M. ★ An invitation to general algebra and universal constructions. **99h:18001**

08–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 08–02

Kiss, Emil W. An introduction to tame congruence theory. (English summary) **99d:03028**
Willard, Ross Three lectures on the RS problem. (English summary) **99d:03029**

08–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 08–04

Bergman, Clifford (*with* Berman, Joel D.) Algorithms for categorical equivalence. (English summary) **99j:08003**
Berman, Joel D. *see* **Bergman, Clifford**, **99j:08003**

08–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 08–06

(Jacobs, Bart) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Moss, Lawrence S.) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Reichel, Horst) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Rutten, Jan) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**

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Workshop:
Coalgebraic Methods in Computer Science ★ First Workshop on Coalgebraic Methods in Computer Science (CMCS '98). **99e:68002**

08Axx Algebraic structures [see also 03C05]

08A02 Relational systems, laws of composition

Davey, B. A. (*with* Quackenbush, R. W.) Bookkeeping duality for paraprimal algebras. **99a:08001**
Machala, František Konzepte in den triadischen Kontext. (English summary) [Concepts in the triadic context] **99m:08001**
Mel'nikov, Yu. B.[1] A generalization of algebraic systems. (Russian. English and Russian summaries) **99c:08001**
Mikheev, Pavel O. Analytic composition laws with identities. (English summary) **99h:08001**
Quackenbush, R. W. *see* **Davey, B. A.**, **99a:08001**
Riguet, Jacques Deducibility and exactness. (English summary) **99k:08001**

Items with secondary classifications in 08A02

Bergman, Clifford (*with* Berman, Joel D.) Algorithms for categorical equivalence. (English summary) **99j:08003**
Berman, Joel D. *see* **Bergman, Clifford**, **99j:08003**
Dougherty, Randall (*with* Jech, Thomas) Finite left-distributive algebras and embedding algebras. (English summary) **99f:08004**
Getzler, Ezra (*with* Kapranov, Mikhail) Modular operads. (English summary) **99f:18009**
Jech, Thomas *see* **Dougherty, Randall**, **99f:08004**
Kapranov, Mikhail *see* **Getzler, Ezra**, **99f:18009**
Kats, M. M. A criterion for the linear orderability of a partial automaton. (Russian) **99c:68176**
Mendris, Robert (*with* Zlatoš, Pavol) Axiomatization and undecidability results for linear betweenness relations. (English summary) **99d:03036**
Montiel, Mariana Algebra and music. (Spanish. Spanish summary) **99j:00006**
Zlatoš, Pavol *see* **Mendris, Robert**, **99d:03036**

08A05 Structure theory

Chajda, Ivan Congruence identities and their local versions. (English summary) **99m:08002**
Kearnes, Keith A. (*with* Kiss, Emil W.) Modularity prevents tails. (English summary) **99m:08003**
Khodalevich, A. D. Hereditary formations of universal algebras. (Russian. English summary) (*see* **99g:20004**)
Kiss, Emil W. *see* **Kearnes, Keith A.**, **99m:08003**
Machida, Hajime The clone space as a metric space. **99m:08004**
Sichler, J. (*with* Trnková, V.) Clones in topology and algebra. (English summary) **99m:08005**
Stokes, Tim Radical classes of algebras with B-action. (English summary) **99h:08002**
Trnková, V. *see* **Sichler, J.**, **99m:08005**

Items with secondary classifications in 08A05

Abd-Allah, A. M. (*with* Al-Hajri, N. A.) Partial modules. (English and Arabic summaries) **99h:16005**
Al-Hajri, N. A. *see* **Abd-Allah, A. M.**, **99h:16005**
Białasik, Marcin *see* **Walicki, Michał**, (**99f:68009**)
Biedermann, Klaus Completion of triordered sets and trilattices. (English summary) **99m:06004**
Chajda, Ivan (*with* Šešelja, Branimir; Tepavčević, Andreja) Lattices of compatible relations satisfying a set of formulas. (English summary) **99k:08002**
— (*with* Šešelja, Branimir; Tepavčević, Andreja) Weak congruences in algebras having restricted similarity types. (English summary) **99g:08001**
Chen, Zhao Mu *see* **Huang, Yi Sheng**[2], **99a:06024**
Drápal, Aleš Finite left distributive algebras with one generator. (English summary) **99c:20096**
Grätzer, G. (*with* Schmidt, E. T.) Congruence-preserving extensions of finite lattices to sectionally complemented lattices. (English summary) **99j:06004**
Huang, Yi Sheng[2] (*with* Chen, Zhao Mu) Multiply implicative BCK-algebras. (English summary) **99a:06024**
Ploščica, Miroslav (*with* Tůma, Jiří; Wehrung, Friedrich) Congruence lattices of free lattices in non-distributive varieties. **99j:06005**
Schmidt, E. T. *see* **Grätzer, G.**, **99j:06004**
Scott, Stuart D. The structure of Ω-groups. **99c:08006**
Šešelja, Branimir *see* **Chajda, Ivan; et al.**, **99g:08001** *and* **99k:08002**
Tepavčević, Andreja *see* **Chajda, Ivan; et al.**, **99g:08001** *and* **99k:08002**
Tůma, Jiří *see* **Ploščica, Miroslav; et al.**, **99j:06005**
Veloso, Paulo A. S. On eight independent equational axiomatisations for fork algebras.
Walicki, Michał (*with* Białasik, Marcin) Categories of relational structures. (English summary) (*see* **99f:68009**)
Wehrung, Friedrich *see* **Ploščica, Miroslav; et al.**, **99j:06005**
Zádori, László Relational sets and categorical equivalence of algebras. (English summary) **99a:08006**

08A30 Subalgebras, congruence relations

Atallah, Mikhail J. *see* **El-Assar, S.**, **99k:08003**
Bělohlávek, Radim (*with* Chajda, Ivan) Polynomially determined congruences in algebras without constants. (English summary) **99m:08006**
— (*with* Chajda, Ivan) Congruence properties in single algebras. (English summary) **99h:08003**
Blok, W. J. (*with* Pigozzi, Don L.) On the congruence extension property. (English summary) **99m:08007**
Bogdanović, Stojan (*with* Ćirić, Miroslav) A note on congruences on algebras. (English summary) **99d:08001**
Chajda, Ivan (*with* Šešelja, Branimir; Tepavčević, Andreja) Lattices of compatible relations satisfying a set of formulas. (English summary) **99k:08002**
— (*with* Halaš, Radomír) Ideals in permutable and 0-regular varieties. (English summary) **99e:08001**
— (*with* Šešelja, Branimir; Tepavčević, Andreja) Weak congruences in algebras having restricted similarity types. (English summary) **99g:08001**
— *see also* **Bělohlávek, Radim**, **99h:08003** *and* **99m:08006**
Ćirić, Miroslav *see* **Bogdanović, Stojan**, **99d:08001**
El-Assar, S. (*with* Atallah, Mikhail J.) On the distributive double p-algebras whose congruence lattices are chains. (English and Arabic summaries) **99k:08003**
Halaš, Radomír *see* **Chajda, Ivan**, **99e:08001**
Khodalevich, A. D. Formation properties of nilpotent algebras. (Russian. English summary) (*see* **99g:20003**)
— Properties of centralizers of congruences of universal algebras. (Russian. English summary) (*see* **99g:20006**)
Kogalovskiĭ, Sergei R. On congruence lattices of finitely generated algebras. (English summary) **99i:08001**
Krivoĭ, S. L. On the computation of congruent closures on terms. (Russian. English and Ukrainian summaries) **99c:08002**
Novikov, S. P. On Ω-pre-Frattini subalgebras of multirings. (Russian. Russian summary) (*see* **99g:20002**)
Pigozzi, Don L. *see* **Blok, W. J.**, **99m:08007**
Pilitowska, Agata Identities for classes of algebras closed under the complex structures. (English summary) **99f:08001**
Šešelja, Branimir *see* **Chajda, Ivan; et al.**, **99g:08001** *and* **99k:08002**
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Skiba, A. N. (*with* Shemetkov, Leonid Aleksandrovich) On primitively closed semiformations of multirings. (Russian. Russian summary) (*see* **99g:20002**)
Tepavčević, Andreja *see* **Chajda, Ivan; et al.**, **99g:08001** *and* **99k:08002**

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Auinger, K. Complete congruences on lattices of (existence) varieties. (English summary) **99a:20061**
Buldas, Ahto Graphs and lattice varieties. (English and Estonian summaries) **99c:06009**
Chajda, Ivan Regularity and permutability via transferability of tolerances. (English summary) **99k:08008**
— The degrees of regularity in varieties. (English summary) **99m:08017**
— (*with* Rosenberg, I. G.) Discriminator algebras with one nullary operation. (English summary) **99m:08009**
Czelakowski, Janusz Logics and operators. **99b:03018**
Das, Pratyayananda Lattice of fuzzy congruences in inverse semigroups. (English summary)
Davey, B. A. (*with* Quackenbush, R. W.) Bookkeeping duality for paraprimal algebras. **99a:08001**
Dorninger, Dietmar Sublogics of ring-like quantum logics. (English summary) **99i:81017**
Dudek, Wiesław A. (*with* Zhang, Xiao Hong[1]) On ideals and congruences in BCC-algebras. (English summary) **99d:06024**
Fearnley-Sander, Desmond (*with* Stokes, Tim) Equality algebras. **99b:08003**
Hall, T. E. (*with* Zhang, Shu Hua[1]) On radical congruence systems. II. (English summary) **99m:20138**

Hasankhani, A. (*with* Zahedi, M. M.; Talaie, M.) Fuzzy congruence relations on a BCK-algebra. (English summary) **99b:06020**
Kaarli, Kalle (*with* McKenzie, Ralph Nelson) Affine complete varieties are congruence distributive. (English summary) **99m:08010**
Kearnes, Keith A. (*with* Kiss, Emil W.) Modularity prevents tails. (English summary) **99m:08003**
Kiss, Emil W. An introduction to tame congruence theory. (English summary) **99d:03028**
— *see also* **Kearnes, Keith A., 99m:08003**
Kurīnnīĭ, G. Ch. Congruences and quasi-identities in a unar. (Ukrainian. English and Ukrainian summaries) **99b:08001**
McKenzie, Ralph Nelson *see* **Kaarli, Kalle, 99m:08010**
Molchanov, Vladimir A. Nonstandard congruences and lattices of pseudovarieties. (English summary) **99a:08005**
Pastijn, F. (*with* Trotter, P. G.) Complete congruences on lattices of varieties and of pseudovarieties. (English summary) **99m:08021**
Quackenbush, R. W. *see* **Davey, B. A., 99a:08001**
Repnitskiĭ, V. B. On lattice-universal varieties of algebras. (Russian) **99a:06011**
Rosenberg, I. G. *see* **Chajda, Ivan, 99m:08009**
Stokes, Tim *see* **Fearnley-Sander, Desmond, 99b:08003**
Talaie, M. *see* **Hasankhani, A.; et al., 99b:06020**
Tallini, Giuseppe Dimensions in multivalued algebraic structures. **99m:20163**
Tang, Xi Lin Semigroups with the congruence extension property. (English summary) **99i:20079**
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Vernikov, Boris M. (*with* Volkov, Mikhail V.) Permutability of fully invariant congruences on relatively free semigroups. (English summary) **99c:20082**
— On congruences of G-sets. (English summary) **99c:08007**
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Willard, Ross Three lectures on the RS problem. (English summary) **99d:03029**
Wu, Chong-Yih On right congruences on semilattices of groups. **99c:20095**
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08A35 Automorphisms, endomorphisms

Davey, B. A. (*with* Pitkethly, J. G.) Endoprimal algebras. (English summary) **99k:08004**
Głazek, Kazimierz A certain Galois connection and weak automorphisms. (English summary) **99m:08008**
Oliveira, Ana Maria Abreu Mendes Products of idempotent endomorphisms of an order-independence algebra of finite rank. (English summary) **99h:08004**
Pitkethly, J. G. *see* **Davey, B. A., 99k:08004**
Schleiermacher, A. Über einen Satz von Krasner. I. [On a theorem of Krasner. I] **99h:08005**

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Covington, Jacinta (*with* Thomas, Doreen A.) A homogenizable fishy poorset. (English summary) **99m:20003**
Fried, Ervin (*with* Sichler, J.) On endomorphisms and automorphisms of monounary algebras. (English summary) **99h:08008**
Gorlov, V. V. (*with* Pöschel, R.) Clones closed with respect to permutation groups or transformation semigroups. (English summary) **99k:08005**
Kharazishvili, A. B. On almost rigid mathematical structures. (English and Polish summaries) **99m:03065**
Koubek, V. (*with* Sichler, J.) Equimorphy in varieties of distributive double p-algebras. (English summary) **99g:06014**
Machala, František (*with* Pomp, Marek) Homomorphisms of contexts and isomorphisms of concept lattices. (English summary) **99a:06007**
— (*with* Slezák, Vladimír) Incidence structures and closure spaces. (English summary) **99f:06009**
— (*with* Pomp, Marek) Disjoint and complete unions of incidence structures. (English summary) **99a:06008**
Pomp, Marek *see* **Machala, František, 99a:06007** *and* **99a:06008**
Pöschel, R. *see* **Gorlov, V. V., 99k:08005**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) On generators of polynomial algebras in two commuting or non-commuting variables. (English summary) **99g:16044**
Sichler, J. *see* **Koubek, V., 99g:06014** *and* **Fried, Ervin, 99h:08008**
Slezák, Vladimír *see* **Machala, František, 99f:06009**
Thomas, Doreen A. *see* **Covington, Jacinta, 99m:20003**
Thomas, Rachel Products of two idempotent transformations over arbitrary sets and vector spaces. (English summary) **99h:20100**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 99g:16044**

08A40 Operations, polynomials, primal algebras

Börner, Ferdinand (*with* Haddad, Lucien) Generating sets for clones and partial clones. (English summary) (*see* **99i:03025**)
Chajda, Ivan (*with* Rosenberg, I. G.) Discriminator algebras with one nullary operation. (English summary) **99m:08009**
Dudek, Józef The minimal extension of sequences. II. On problem 17 of Gratzer and Kisielewicz. **99c:08003**
Fugère, B. J. (*with* Haddad, Lucien) On partial clones containing all idempotent partial operations. (English summary) (*see* **99i:03025**)
Goldstern, Martin Most algebras have the interpolation property. (English summary) **99g:08002**
Gorlov, V. V. (*with* Pöschel, R.) Clones closed with respect to permutation groups or transformation semigroups. (English summary) **99k:08005**
Grabowski, J.-U. Binary operations suffice to test collapsing of monoidal intervals. (English summary) **99c:08004**
Haddad, Lucien *see* **Fugère, B. J., (99i:03025)** *and* **Börner, Ferdinand, (99i:03025)**
Heatherly, Henry E. (*with* Lee, Enoch K. S.; Wiegandt, Richárd) Involutions on universal algebras. (English summary) **99c:08005**
Kaarli, Kalle (*with* McKenzie, Ralph Nelson) Affine complete varieties are congruence distributive. (English summary) **99m:08010**
Konguetsof, Leonidas Structures algébriques munies avec des lois de composition généralisées. Généralisations du produit scalaire. (French summary) [Algebraic structures equipped with generalized composition laws. Generalizations of the scalar product] **99k:08006**
Lee, Enoch K. S. *see* **Heatherly, Henry E.; et al., 99c:08005**
Machida, Hajime Some continuous maps on the space of clones in multiple-valued logic. (English summary) (*see* **99i:03025**)
Marchenkov, S. S. Clone classification of dual-discriminator algebras with finite support. (Russian. Russian summary) **99k:08007**
Marczak, Adam W. On the representability of the sequence $(0, 2, 3, \cdots, n, n+1, \cdots)$. (English summary) **99m:08011**
McKenzie, Ralph Nelson *see* **Kaarli, Kalle, 99m:08010**
Pantović, J. (*with* Tošić, R.; Vojvodić, G.) The cardinality of functionally complete algebras on a three element set. (English summary) **99i:08002**
Pöschel, R. *see* **Gorlov, V. V., 99k:08005**
Rosenberg, I. G. Multiple-valued hyperstructures. (English summary) (*see* **99i:03025**)
— *see also* **Chajda, Ivan, 99m:08009**
Scott, Stuart D. The structure of Ω-groups. **99c:08006**
Tošić, R. *see* **Pantović, J.; et al., 99i:08002**
Trokhimenko, V. S. v-regular Menger algebras. **99h:08006**
Vojvodić, G. *see* **Pantović, J.; et al., 99i:08002**
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Items with secondary classifications in 08A40

Bělohlávek, Radim (*with* Chajda, Ivan) Congruence properties in single algebras. (English summary) **99h:08003**
Chajda, Ivan *see* **Bělohlávek, Radim, 99h:08003**
Davey, B. A. (*with* Pitkethly, J. G.) Endoprimal algebras. (English summary) **99k:08004**
Denecke, Klaus (*with* Koppitz, Jörg) Finite monoids of hypersubstitutions of type $\tau = (2)$. **99c:08011**
— (*with* Koppitz, Jörg) M-solid monoids of hypersubstitutions of type $\tau = (2)$. (English summary) **99k:20107**
Dudek, Józef Small idempotent clones. I. (English summary) **99a:20071**
Głazek, Kazimierz A certain Galois connection and weak automorphisms. (English summary) **99m:08008**
Goldstern, Martin (*with* Shelah, Saharon) Order polynomially complete lattices must be large. (English summary) **99g:06010**
Haviar, Miroslav (*with* Kaarli, Kalle; Ploščica, Miroslav) Affine completeness of Kleene algebras. (English summary) **99c:06013**
— *see also* **Ploščica, Miroslav, 99g:06011**
Kaarli, Kalle *see* **Haviar, Miroslav; et al., 99c:06013**
Koppitz, Jörg *see* **Denecke, Klaus, 99c:08011** *and* **99k:20107**
Lau, Dietlinde Die maximalen Klassen von $\mathrm{Pol}_3\{\rho \mid \rho \in Q\}$ für $Q \subseteq \mathfrak{P}(\{0,1,2\})$. I. [The maximal classes of $\mathrm{Pol}_3\{\rho \mid \rho \in Q\}$ for $Q \subseteq \mathfrak{P}(\{0,1,2\})$. I] **99g:03021**
Machida, Hajime The clone space as a metric space. **99m:08004**
Pitkethly, J. G. *see* **Davey, B. A., 99k:08004**
Ploščica, Miroslav (*with* Haviar, Miroslav) On order-polynomial completeness of lattices. (English summary) **99g:06011**
— *see also* **Haviar, Miroslav; et al., 99c:06013**
Shelah, Saharon *see* **Goldstern, Martin, 99g:06010**
Sichler, J. (*with* Trnková, V.) Clones in topology and algebra. (English summary) **99m:08005**
Strauch, Birger On partial classes containing all monotone and zero-preserving total Boolean functions. (English summary) **99a:03030**
Szendrei, Ágnes Modules in general algebra. (English summary) **99m:08019**
Trnková, V. *see* **Sichler, J., 99m:08005**

08A45 Equational compactness

Laradji, Abdallah On a problem of Wenzel on equational compactness of modules. (English summary) **99j:08001**
— On a weak form of equational compactness. (English summary) **99m:08012**

Items with secondary classifications in 08A45

Ouwehand, P. (*with* Rose, Henry) Small congruence distributive varieties: retracts, injectives, equational compactness and amalgamation. (English summary) **99i:08003**
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08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

Watier, Guillaume On the word problem for single relation monoids with an unbordered relator. (English summary) **99a:08002**

Items with secondary classifications in 08A50

Guba, V. S. On a relation between the word problem and the word divisibility problem for semigroups with one defining relation. (Russian. Russian summary) **99k:03036**
Margolis, Stuart W. (*with* Meakin, J.; Sapir, Mark V.) Algorithmic problems in groups, semigroups and inverse semigroups. **99e:20043**
Meakin, J. *see* **Margolis, Stuart W.; et al., 99e:20043**
Sapir, Mark V. *see* **Margolis, Stuart W.; et al., 99e:20043**

08A55 Partial algebras

Chajda, Ivan (*with* Seidl, Z.) An algebraic approach to partial lattices. **99h:08007**
Rudeanu, Sergiu On general and reproductive solutions of finite equations. (English summary) **99m:08013**

Seidl, Z. *see* **Chajda, Ivan, 99h:08007**

Items with secondary classifications in 08A55

Abd-Allah, A. M. (*with* Al-Hajri, N. A.) Partial modules. (English and Arabic summaries) **99h:16005**
Al-Hajri, N. A. *see* **Abd-Allah, A. M., 99h:16005**
Bennett, Mary Katherine (*with* Foulis, David J.) A generalized Sasaki projection for effect algebras. (English summary) **99g:03064**
Dorninger, Dietmar (*with* Länger, Helmut; Mączyński, Maciej) On ring-like structures occurring in axiomatic quantum mechanics. (English summary) **99m:81017**
Foulis, David J. *see* **Bennett, Mary Katherine, 99g:03064**
Hébert, Michel On generation and implicit partial operations in locally presentable categories. (English summary) **99i:18002**
Hoehnke, Hans-Jürgen Categories, fractegories, fractal lax functors. (English summary) **99e:18006**
Länger, Helmut *see* **Dorninger, Dietmar; et al., 99m:81017**
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Ravindran, Kuppusamy States on effect algebras that have the φ-symmetry property. (English summary) **99g:81017**
Vogel, Hans-Jürgen On functors between dhtV-symmetric categories. (English summary) **99k:18012**

08A60 Unary algebras

Fried, Ervin (*with* Sichler, J.) On endomorphisms and automorphisms of monounary algebras. (English summary) **99h:08008**
Halušková, Emília On iterated direct limits of a monounary algebra. (English summary) **99m:08014**
Jakubíková-Studenovská, Danica Retract injective and retract projective monounary algebras. (English summary) **99m:08015**
— Monounary algebras and bottleneck algebras. (English summary) **99h:08009**
Ježek, Jaroslav (*with* Kepka, Tomáš) Bijective reflexions and coreflexions of commutative unars. (English and Czech summaries) **99h:08010**
Kepka, Tomáš *see* **Ježek, Jaroslav, 99h:08010**
Kurīnnīĭ, G. Ch. Congruences and quasi-identities in a unar. (Ukrainian. English and Ukrainian summaries) **99b:08001**
Novotný, Jiří[1] Groupoids and cyclic monounary algebras. (English summary) **99g:08003**
Sichler, J. *see* **Fried, Ervin, 99h:08008**
Vernikov, Boris M. On congruences of G-sets. (English summary) **99c:08007**
Wismath, Shelly L. Unary hyperidentities for type ⟨1⟩ algebras. (English summary) **99m:08016**

Items with secondary classifications in 08A60

Grabowski, J.-U. Binary operations suffice to test collapsing of monoidal intervals. (English summary) **99c:08004**
Jakubíková-Studenovská, Danica Antiatomic retract varieties of monounary algebras. **99m:08020**
Jeong, Joohee Decidability and finite direct products. (English summary) **99m:03016**
Stepanova, A. A. Monoids with decidable and undecidable classes of polygons. (Russian. Russian summary) **99m:03019**

08A62 Finitary algebras

Items with secondary classifications in 08A62

Chajda, Ivan (*with* Šešelja, Branimir; Tepavčević, Andreja) Weak congruences in algebras having restricted similarity types. (English summary) **99g:08001**
Länger, Helmut Generalizations of the correspondence between Boolean algebras and Boolean rings to orthomodular lattices. (English summary) **99m:06019**
Šešelja, Branimir *see* **Chajda, Ivan; et al., 99g:08001**
Sichler, J. (*with* Trnková, V.) Clones in topology and algebra. (English summary) **99m:08005**
Tepavčević, Andreja *see* **Chajda, Ivan; et al., 99g:08001**
Trnková, V. *see* **Sichler, J., 99m:08005**

08A65 Infinitary algebras

Items with secondary classifications in 08A65

Chajda, Ivan (*with* Šešelja, Branimir; Tepavčević, Andreja) Weak congruences in algebras having restricted similarity types. (English summary) **99g:08001**
Schleiermacher, A. Über einen Satz von Krasner. I. [On a theorem of Krasner. I] **99h:08005**
Šešelja, Branimir *see* **Chajda, Ivan; et al., 99g:08001**
Tepavčević, Andreja *see* **Chajda, Ivan; et al., 99g:08001**

08A70 Applications of universal algebra in computer science

Items with secondary classifications in 08A70

Baader, Franz (*with* Nipkow, Tobias) ★ Term rewriting and all that. (English summary) **99k:68088**
Baum, Gabriel A. *see* **Martínez López, Pablo E., 99g:68134**
Branco, Mário J. J. The kernel category and variants of the concatenation product. (English summary) **99c:68149**
Diaconescu, Răzvan Extra theory morphisms for institutions: logical semantics for multi-paradigm languages. (English summary) **99m:68126**
Manes, Ernie G. Implementing collection classes with monads. (English summary) **99j:68007**
Martínez López, Pablo E. (*with* Baum, Gabriel A.) Fork algebraic datatypes. (English summary) **99g:68134**
Nipkow, Tobias *see* **Baader, Franz, 99k:68088**
Surzhko, S. V. (*with* Yushchenko, E. L.) Complete interpretations of Ω-languages and of free algebras of Ω-elements. (Russian. English and Ukrainian summaries) **99b:68118**
Veloso, Paulo A. S. On eight independent equational axiomatisations for fork algebras.
Yushchenko, E. L. *see* **Surzhko, S. V., 99b:68118**

08A99 None of the above, but in this section

Rosenberg, I. G. An interface between algebra and combinatorics. (*see* **99c:00012**)
Weinberger, Arthur Embedding lattices of fuzzy subalgebras into lattices of crisp subalgebras. (English summary) **99b:08002**

08Bxx Varieties

08B05 Equational logic, Mal'cev (Mal'tsev) conditions

Agliano, P. (*with* Ursini, A.) On subtractive varieties. IV. Definability of principal ideals. (English summary) **99j:08002**
Chajda, Ivan Regularity and permutability via transferability of tolerances. (English summary) **99k:08008**
— The degrees of regularity in varieties. (English summary) **99m:08017**
— Jónsson's lemma for normally presented varieties. **99c:08008**
Čupona, G. (*with* Markovski, S.) Primitive varieties of algebras. (English summary) **99g:08004**
Czelakowski, Janusz Relative principal congruences in congruence-modular quasivarieties. (English summary) **99h:08011**
Denecke, Klaus (*with* Reichel, Mario) Monoids of hypersubstitutions and M-solid varieties. (English summary) **99a:08003**
Fearnley-Sander, Desmond (*with* Stokes, Tim) Equality algebras. **99b:08003**
Graczyńska, Ewa Regular identities. (*see* **99f:20003**)
— G. Birkhoff's theorems for M-solid varieties. (English summary)
Kilgus, Bernhard *see* **Schweigert, Dietmar, (98g:00020)**
Markovski, S. *see* **Čupona, G., 99g:08004**
Movsisyan, Yu. M. Superidentities in algebras and varieties. (Russian) **99f:08002**
Plotkin, Boris I. Varieties of algebras and algebraic varieties. Categories of algebraic varieties. (English summary) **99a:08004**
Reichel, Mario *see* **Denecke, Klaus, 99a:08003**
Repnitskiĭ, V. B. Varieties of algebras with nontrivial identities on lattices of subalgebras. (Russian) **99b:08004**
Schweigert, Dietmar (*with* Kilgus, Bernhard) On the lattice of solid equational theories. (*see* **98g:00020**)
Stokes, Tim *see* **Fearnley-Sander, Desmond, 99b:08003**
Ursini, A. *see* **Agliano, P., 99j:08002**
Wismath, Shelly L. V-proper and normal form hypersubstitutions. (English summary) **99g:08005**

Items with secondary classifications in 08B05

Agliano, P. On subtractive weak Brouwerian semilattices. **99g:08006**
Andréka, Hajnal (*with* Givant, Steven; Mikulás, Szabolcs; Németi, István; Simon, András) Notions of density that imply representability in algebraic logic. (English summary) **99f:03089**
Belov, A. Ya. (*with* Borisenko, V. V.; Latyshev, V. N.) Monomial algebras. **99f:16022**
Berman, Joel D. (*with* Lakser, H.) The probability of triviality. (English summary) **99m:08023**
Bertol, Michael *see* **Ésik, Zoltán, 99d:68144**
Blanchet-Sadri, F. On the semidirect product of the pseudovariety of semilattices by a locally finite pseudovariety of groups. (English and French summaries) **99d:20098**
Borisenko, V. V. *see* **Belov, A. Ya.; et al., 99f:16022**
Chajda, Ivan Congruence identities and their local versions. (English summary) **99m:08002**
— (*with* Halaš, Radomir) Ideals in permutable and 0-regular varieties. (English summary) **99e:08001**
Davey, B. A. (*with* Quackenbush, R. W.) Bookkeeping duality for paraprimal algebras. **99a:08001**
Denecke, Klaus (*with* Koppitz, Jörg) M-solid monoids of hypersubstitutions of type $\tau = (2)$. (English summary) **99k:20107**
Dudek, Józef The minimal extension of sequences. II. On problem 17 of Gratzer and Kisielewicz. **99c:08003**
— Small idempotent clones. I. (English summary) **99a:20071**
Dudek, Wiesław A. *see* **Stojaković, Zoran, 99c:05041**
Ésik, Zoltán (*with* Bertol, Michael) Nonfinite axiomatizability of the equational theory of shuffle. (English summary) **99d:68144**
Frias, Marcelo F. Independence of the axiomatization of fork. (English summary) **99g:03068**
Givant, Steven *see* **Andréka, Hajnal; et al., 99f:03089**
Halaš, Radomír *see* **Chajda, Ivan, 99e:08001**
Kisielewicz, Andrzej Austin identities. **99j:03026**
Koppitz, Jörg *see* **Denecke, Klaus, 99k:20107**
Kravchenko, Yu. V. The semidirect product of polyadic multirings. (Russian. English summary) (*see* **99g:20006**)
Kublanovskiĭ, S. I. On varieties of associative algebras with local finiteness conditions. (Russian. Russian summary) **99a:16017**
Kurīnnīĭ, G. Ch. Congruences and quasi-identities in a unar. (Ukrainian. English and Ukrainian summaries) **99b:08001**
Lakser, H. *see* **Berman, Joel D., 99m:08023**
Laradji, Abdallah On a problem of Wenzel on equational compactness of modules. (English summary) **99j:08001**
Latyshev, V. N. *see* **Belov, A. Ya.; et al., 99f:16022**
Leguizamón, C. A. *see* **Zaretzky, A. N., 99d:92005**
Marx, Maarten Amalgamation in relation algebras. **99m:03128**

Melkonyan, V. G. Quasi-identities and conditional super-identities of distributive lattices. (Russian. Armenian summary)
— *see also* **Movsisyan, Yu. M.**
Mikheev, Pavel O. Analytic composition laws with identities. (English summary) **99h:08001**
Mikulás, Szabolcs *see* **Andréka, Hajnal; et al., 99f:03089**
Movsisyan, Yu. M. (*with* Melkonyan, V. G.) Superidentities of distributive lattices. (Russian. Armenian summary)
Németi, István *see* **Andréka, Hajnal; et al., 99f:03089**
Quackenbush, R. W. *see* **Davey, B. A., 99a:08001**
Repnitskiĭ, V. B. (*with* Volkov, Mikhail V.) The finite basis problem for pseudovariety $\mathscr{O}$. (English summary) **99m:20139**
Simon, András *see* **Andréka, Hajnal; et al., 99f:03089**
Stojaković, Zoran (*with* Dudek, Wiesław A.) Single identities for varieties equivalent to quadruple systems. (English summary) **99c:05041**
Szylicka, Z. Hyperidentities of some generalizations of lattices. (English summary) **99m:06015**
Valeriote, Matthew A. Decidable equational classes. (English summary) **99c:03045**
Volkov, Mikhail V. *see* **Repnitskiĭ, V. B., 99m:20139**
Wismath, Shelly L. Unary hyperidentities for type ⟨1⟩ algebras. (English summary) **99m:08016**
Zaretzky, A. N. (*with* Leguizamón, C. A.) Changing algebras in low energy biologic relational processes. (English summary) **99d:92005**

08B10 Congruence modularity, congruence distributivity

Agliano, P. On subtractive weak Brouwerian semilattices. **99g:08006**
Artamonov, V. A. The Magnus representation in congruence modular varieties. (Russian. Russian summary) **99c:08009**
Ouwehand, P. (*with* Rose, Henry) Small congruence distributive varieties: retracts, injectives, equational compactness and amalgamation. (English summary) **99i:08003**
Pedicchio, Maria Cristina Some remarks on internal pregroupoids in varieties. (English summary) **99m:08018**
Pinus, A. G. On lattices in skeletons of embeddability of varieties. (Russian. Russian summary) **99c:08010**
Rose, Henry *see* **Ouwehand, P., 99i:08003**
Szendrei, Ágnes Modules in general algebra. (English summary) **99m:08019**

Items with secondary classifications in 08B10

Bělohlávek, Radim (*with* Chajda, Ivan) Congruence properties in single algebras. (English summary) **99h:08003**
Chajda, Ivan *see* **Bělohlávek, Radim, 99h:08003**
Kearnes, Keith A. (*with* Kiss, Emil W.) Modularity prevents tails. (English summary) **99m:08003**
Kiss, Emil W. *see* **Kearnes, Keith A., 99m:08003**

08B15 Lattices of varieties

Chekalina, T. A. *see* **Stepanova, A. A., (99k:00020)**
Denecke, Klaus Hyperequational theory. (English summary) **99k:08009**
— (*with* Koppitz, Jörg) Finite monoids of hypersubstitutions of type $\tau = (2)$. **99c:08011**
Jakubíková-Studenovská, Danica Antiatomic retract varieties of monounary algebras. **99m:08020**
Koppitz, Jörg *see* **Denecke, Klaus, 99c:08011**
Malinowski, Jacek On the lattice of orthomodular logics. (English summary)
Molchanov, Vladimir A. Nonstandard congruences and lattices of pseudovarieties. (English summary) **99a:08005**
Pastijn, F. (*with* Trotter, P. G.) Complete congruences on lattices of varieties and of pseudovarieties. (English summary) **99m:08021**
Stepanova, A. A. (*with* Chekalina, T. A.) The lattice of varieties of unars. (Russian. Russian summary) (*see* **99k:00020**)
Trotter, P. G. *see* **Pastijn, F., 99m:08021**
Vernikov, Boris M. Quasi-identities implying modularity and related conditions in lattices of overcommutative semigroup varieties. (English summary) **99m:08022**

Items with secondary classifications in 08B15

Auinger, K. Complete congruences on lattices of (existence) varieties. (English summary) **99a:20061**
— A method for the construction of complete congruences on lattices of pseudovarieties. (English summary) **99a:20062**
Denecke, Klaus (*with* Koppitz, Jörg; Wismath, Shelly L.) Maps between M-solid varieties of semigroups. (English summary) **99j:20065**
— (*with* Koppitz, Jörg; Marszałek, R.) Derived varieties and derived equational theories. (English summary) **99d:20099**
Emery, Stephen J. Varieties and pseudovarieties of ordered normal bands. (English summary) **99m:20137**
Hall, T. E. (*with* Zhang, Shu Hua[1]) On radical congruence systems. II. (English summary) **99m:20138**
Kopamu, Samuel J. L. Varieties of structurally trivial semigroups. I. (English summary) **99k:20108**
Koppitz, Jörg *see* **Denecke, Klaus; et al., 99d:20099** *and* **99j:20065**
Marszałek, R. *see* **Denecke, Klaus; et al., 99d:20099**
Medvedev, Nikolai Ya. On automorphisms of the lattice of quasivarieties of lattice-ordered groups. (English summary) **99d:06022**
Steinberg, Benjamin On pointlike sets and joins of pseudovarieties. (English summary) **99g:20104**
Vernikov, Boris M. (*with* Volkov, Mikhail V.) Permutability of fully invariant congruences on relatively free semigroups. (English summary) **99c:20082**
Volkov, Mikhail V. *see* **Vernikov, Boris M., 99c:20082**
Wismath, Shelly L. *see* **Denecke, Klaus; et al., 99j:20065**
Zhang, Shu Hua[1] *see* **Hall, T. E., 99m:20138**

08B20 Free algebras

Abad, Manuel *see* **Monteiro, Luiz F.; et al., 99i:08004**
Berman, Joel D. (*with* Lakser, H.) The probability of triviality. (English summary) **99m:08023**
Lakser, H. *see* **Berman, Joel D., 99m:08023**
Monteiro, Luiz F. (*with* Abad, Manuel; Savini, Sonia; Sewald, Julio) Finite free generating sets. (English summary) **99i:08004**
Savini, Sonia *see* **Monteiro, Luiz F.; et al., 99i:08004**
Sewald, Julio *see* **Monteiro, Luiz F.; et al., 99i:08004**

Items with secondary classifications in 08B20

Bloom, Stephen L. (*with* Ésik, Zoltán) Varieties generated by languages with poset operations. (English summary) **99b:68111**
Čupona, Ǵ. (*with* Markovski, S.) Primitive varieties of algebras. (English summary) **99g:08004**
Ésik, Zoltán *see* **Bloom, Stephen L., 99b:68111**
Markovski, S. *see* **Čupona, Ǵ., 99g:08004**
Shelah, Saharon If there is an exactly λ-free abelian group then there is an exactly λ-separable one in λ. (English summary) **99c:20076**
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Karatsuba, Anatoliĭ Alekseevich ★ К 60-летию со дня рождения профессора Анатолия Алексеевича Карацубы. (Russian) [Dedicated to Professor Anatoliĭ Alekseevich Karatsuba on the occasion of his 60th birthday]
Finite fields: theory, applications, and algorithms ★ Finite fields: theory, applications, and algorithms. **99f:11002**
Graz Mathematical Reports ★ Grazer Mathematische Berichte. 333. (German) [Graz mathematical reports. 333] **99d:11003**
Grazer Mathematische Berichte ★ Grazer Mathematische Berichte. 333. (German) [Graz mathematical reports. 333] **99d:11003**
Hong Kong ★ Elliptic curves, modular forms & Fermat's last theorem. **99d:11002**
Lecture Notes in Statistics ★ Random and quasi-random point sets. **99g:11003**
Lectures:
Ramanujan, Srinivasa Aiyangar ★ Ramanujan Visiting Lectures. **99g:11001**
Memorial Issue:
Erdős, Paul[1] ★ Paul Erdős (1913–1996).
Minneapolis, MN ★ Emerging applications of number theory. **99m:11003**
Modular forms and Fermat's last theorem ★ Modular forms and Fermat's last theorem. **99k:11004**
New trends in probability and statistics ★ New trends in probability and statistics. Vol. 4. **99f:11003**
Nombre et répartition de points de hauteur bornée ★ Nombre et répartition de points de hauteur bornée. (French) [Number and distribution of points of bounded height] **99j:11001**
Number and distribution of points of bounded height ★ Nombre et répartition de points de hauteur bornée. (French) [Number and distribution of points of bounded height] **99j:11001**
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— ★ Number theory. **99a:11004**
— ★ Number theory. **99i:11002**
— ★ Number theory. **99k:11005**
Number theory and its applications ★ Number theory and its applications. **99g:11002**
Ottawa, ON ★ Number theory. **99k:11005**
Palanga ★ New trends in probability and statistics. Vol. 4. **99f:11003**
Paris ★ Number theory. **99b:11003**
— ★ Nombre et répartition de points de hauteur bornée. (French) [Number and distribution of points of bounded height] **99j:11001**
Paul Erdős ★ Paul Erdős (1913–1996).
Proceedings:
Conference on Smarandache Type Notions in Number Theory ★ Proceedings of the First International Conference on Smarandache Type Notions in Number Theory. **99a:11002**
Publications du Centre de Recherches en Mathématiques Pures. Sér. I ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 22. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 22] **99f:11004**
Publications of the Center for Research in Pure Mathematics. Ser. I ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 22. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 22] **99f:11004**
Random and quasi-random point sets ★ Random and quasi-random point sets. **99g:11003**
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Number and Distribution of Points of Bounded Height ★ Nombre et répartition de points de hauteur bornée. (French) [Number and distribution of points of bounded height] **99j:11001**
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Algebraic Number Theory and Related Topics ★ Daisūteki seisū ron to sono shūhen. (Japanese) [Algebraic number theory and related topics] **99d:11001**
Automorphic Forms and Number Theory ★ Hokei keishiki to seisū ron. [Automorphic forms and number theory] **99m:11002**
Research on Automorphic Forms and Zeta Functions ★ Hokei keishiki to zeeta kansū no kenkyū. (Japanese) [Research on automorphic forms and zeta functions] **99a:11005**
Research on Prehomogeneous Vector Spaces ★ Gai kinshitsu bekutoru kūkan no kenkyū. [Research on prehomogeneous vector spaces] **99a:11006**
Sieve Methods, Exponential Sums, and their Applications in Number Theory ★ Sieve methods, exponential sums, and their applications in number theory. **99b:11004**
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(Bouscaren, Elisabeth) *see* **Model theory and algebraic geometry, 99k:03032**
(Greuel, Gert-Martin) *see* **Algorithmic algebra and number theory, 99h:00020**
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(Hiss, Gerhard) *see* **Algorithmic algebra and number theory, 99h:00020**
(Hrushovski, E.) *see* **Model theory and algebraic geometry, 99k:03032**
(Matzat, B. Heinrich) *see* **Algorithmic algebra and number theory, 99h:00020**
(Myung, Hyo Chul) *see* **Recent progress in algebra, 99e:00027**
(Pak, G. K.) *see* **Algebras, groups and varieties, 99k:00020**
(Zelmanov, Efim I.) *see* **Recent progress in algebra, 99e:00027**

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Model theory and algebraic geometry ★ Model theory and algebraic geometry. **99k:03032**
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Seoul ★ Recent progress in algebra. **99e:00027**
Taejon ★ Recent progress in algebra. **99e:00027**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

Items with secondary classifications in 11Axx

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11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Baica, Malvina Baica's general Euclidean algorithm restricted periodicity an N-dimensional equivalent for Euler-Lagrange theorem from quadratics. (English summary)
Cohen, G. L. (*with* Sorli, R. M.) Harmonic seeds. **99j:11002**
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Hilton, Peter (*with* Pedersen, Jean) On the quasi-order theorem. **99k:11006**
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Zhao, Jian[3] A proof of a newly discovered fundamental theorem in elementary number theory. (Chinese. English and Chinese summaries)

Items with secondary classifications in 11A05

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Lengyel, Tamás Divisibility properties by recurrence relations. (English summary) **99g:11019**
Siler, Joseph R. Mean crowds and Pythagorean triples. **99d:11008**

11A07 Congruences; primitive roots; residue systems

Donovan, Timothy P. Matrix quadratic residues mod p^n. **99b:11005**
Ibstedt, Henry On Smarandache's periodic sequences. (English summary) (*see* **99a:11002**)
Iwasaki, Yoshimitsu Algebraic and geometrical aspects on the Chinese remainder theorem. (Japanese. English and Japanese summaries) **99h:11003**
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— On Smarandache's form of the individual Fermat-Euler theorem. (English summary) **99h:11004**
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Shan, Zun (*with* Wang, Edward T. H.) A simple proof of a curious congruence by Sun. (English summary) **99h:11006**
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Byard, Kevin *see* **Jennings, Derek, 99b:05021**
Dixon, Geoffrey Division algebras, Galois fields, quadratic residues. (English summary) **99c:17003**
Granville, Andrew Arithmetic properties of binomial coefficients. I. Binomial coefficients modulo prime powers. **99h:11016**
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Kohno, Yoshifumi (*with* Uehara, Tsuyoshi) A congruence relation for generalized Fibonacci numbers and its formal-group-law interpretation. (English summary) **99f:11019**
Konyagin, Sergeĭ (*with* Stechkin, Sergeĭ Borisovich) An estimate for the number of solutions of nth degree congruence with one unknown. (Russian) **99j:11109**
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Rotkiewicz, A. Arithmetical progressions formed by Lucas pseudoprimes. **99f:11020**
Simalarides, A. Congruences mod p^n for the Bernoulli numbers. **99e:11024**
Spearman, Blair K. *see* **Huard, James G.; et al., 99b:11012**
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Yu, Hongquan A generalization of Stirling numbers. **99g:11025**
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11A15 Power residues, reciprocity

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Huang, Tie Jun (*with* Liu, Jian; Zhang, Jun[7]) Quadratic residue functions and the beauty of their patterns. (Chinese. English and Chinese summaries) **99j:11004**
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Müller, Siguna M. S. On strong Lucas pseudoprimes. (English summary) **99k:11008**
Sharifi, Romyar T. On cyclotomic polynomials, power residues, and reciprocity laws. (English summary) **99a:11007**
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Items with secondary classifications in 11A15

Berndt, Bruce C. (*with* Evans, Ronald J.; Williams, Kenneth S.) ★ Gauss and Jacobi sums. **99d:11092**
Evans, Ronald J. *see* **Berndt, Bruce C.; et al., 99d:11092**
Granville, Andrew (*with* Soundararajan, K.) A binary additive problem of Erdős and the order of 2 mod p^2. (English summary) **99i:11081**
Helou, Charles Power reciprocity for binomial cyclotomic integers. (English summary) **99j:11126**
Meyer Eikenberry, Shawna (*with* Sorenson, Jonathan P.) Efficient algorithms for computing the Jacobi symbol. (English summary) **99h:11146**
Mollin, R. A. A survey of Jacobi symbols, ideals, and continued fractions. (English summary) **99h:11119**
Schinzel, Andrzej Hilbert's Ninth Problem. (Polish. English summary) (*see* **99b:01001**)
Sorenson, Jonathan P. *see* **Meyer Eikenberry, Shawna, 99h:11146**
Soundararajan, K. *see* **Granville, Andrew, 99i:11081**
Williams, Kenneth S. *see* **Berndt, Bruce C.; et al., 99d:11092**

11A25 Arithmetic functions; related numbers; inversion formulas

Ashbacher, Charles ★ Pluckings from the tree of Smarandache sequences and functions. **99j:11005**
— The pseudo-Smarandache function and the classical functions of number theory. (English summary)
— All solutions of the equation $S(n) + d(n) = n$.
— (*with* Le, Mao Hua) On Smarandache simple continued fractions. (English summary)
— *see also* **Erdős, Paul[1], 99e:11004**
Bălăcenoiu, Ion The semilattice with consistent return. (*see* **99a:11002**)
— The factorial signature of natural numbers.
Balasubramanian, N. On the Bushe-Ramanujan identities. **99g:11008**
Bencze, Mihaly A new inequality for the Smarandache function.
— An inequality for the Smarandache function.
Bhattacharjee, Debashis B-product and its properties. (English summary)
— Multiplicative B-product and its properties. (English summary) **99f:11006**
Bui Minh Phong *see* **Fehér, János; et al., 99f:11007**
Chebrakov, Y. V. (*with* Shmagin, V. V.) The analytical formulae yielding some Smarandache numbers and applications in magic squares theory. (English summary) (*see* **99a:11002**)
Cojocaru, Ion (*with* Cojocaru, Sorin) On a function in the numbers theory. (English summary) (*see* **99a:11002**)
Cojocaru, Sorin *see* **Cojocaru, Ion,** (**99a:11002**)
Erdős, Paul[1] (*with* Ashbacher, Charles) Thoughts of Pal Erdos on some Smarandache notions. **99e:11004**
Fehér, János (*with* Kátai, Imre; Bui Minh Phong) On multiplicative functions satisfying a special relation. (English summary) **99f:11007**
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— (*with* Wang, Jun[1]) Euler's totient function and Ramanujan's sum in a poset-theoretic setting. (English summary) **99e:11006**
— On some set-reduced arithmetical sums. (English summary) **99g:11009**
— A further combinatorial number-theoretic extension of Euler's totient. (English summary) **99e:11007**
— (*with* Ruokonen, P.) On an analogue of completely multiplicative functions. (English summary) **99h:11007**
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Hsu, Leetsch Charles (*with* Wang, Jun[1]) Some Möbius-type functions and inversions constructed via difference operators. (English summary) **99g:11010**
Kátai, Imre (*with* van Rossum-Wijsmuller, Marijke) On the iterates of the sum of unitary divisors. (English summary) **99a:11008**
— (*with* Subbarao, M. V.) The characterization of n^{ir} as a multiplicative function. (English summary) **99k:11009**
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Le, Mao Hua An inequality concerning the Smarandache function. (English summary)
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— On Smarandache divisor products. (English summary)
— On the Smarandache n-ary sieve. (English summary)
— Perfect powers in the Smarandache permutation sequence. (English summary)
— On Smarandache pseudo-powers of third kind. (English summary)
— An improvement on the Smarandache divisibility theorem. (English summary)
— On the Smarandache prime additive complement sequence. (English summary)
— On Smarandache simple functions. (English summary)
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— *see also* **Ashbacher, Charles**
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Padmavathamm, M. (*with* Subrahmanyasastri, V. V.) Distributive and quasi-distributive properties of arithmetic functions relative to s-regular and strong regular convolutions. (English summary) **99f:11008**
— *see also* **Subrahmanyasastri, V. V.**
Panda, S. N. *see* **Sastry, K. P. R., 99e:11008**
Prodanescu, I. (*with* Tutescu, L.) On a conjecture concerning the Smarandache function.
Rădescu, E. (*with* Rădescu, N.) Some elementary algebraic considerations inspired by Smarandache type functions. (*see* **99a:11002**)
Rădescu, N. *see* **Rădescu, E.,** (**99a:11002**)
van Rossum-Wijsmuller, Marijke *see* **Kátai, Imre, 99a:11008**
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Sándor, József On an exponential totient function. (English summary) **99f:11009**
— (*with* Tóth, László) On certain arithmetic functions associated with the unitary divisors of a number. **99c:11006**
Sastry, K. P. R. (*with* Panda, S. N.) On the arithmetical functions $\sigma_k^*(n)$ and $\varphi_k^*(n)$. (English summary) **99e:11008**
Schinzel, Andrzej A property of the unitary convolution. **99k:11010**
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Shonhiwa, Temba (*with* Gould, H. W.) A generalization of Cesàro's function and other results. (English summary) **99f:11010**
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— (*with* Subbarao, M. V.) On unitary multiperfect numbers. **99h:11008**
— (*with* Subbarao, M. V.) On the equation $\sigma^*(\sigma^*(n)) = 2n$. (English summary) **99a:11009**
Sivaramakrishnan, R. On a class of arithmetic functions. (*see* **99g:11001**)
Smarandache, Florentin ★ Asupra unor noi funcţii în teoria numerelor. (Moldavian) [On some new functions in number theory]
Subbarao, M. V. *see* **Sitaramaiah, V., 99a:11009; 99c:11007; 99h:11008** *and* **Kátai, Imre, 99k:11009**
Subrahmanyasastri, V. V. (*with* Padmavathamm, M.) On certain distributive and quasi-distributive properties of arithmetic functions.
— *see also* **Padmavathamm, M., 99f:11008**
Tabirca, Sabin (*with* Tabirca, Tatiana) Two functions in number theory and some uppers bounds for the Smarandache's function. (English summary)
— (*with* Tabirca, Tatiana) Two functions in number theory and some upper bounds for the Smarandache's function. (English summary)
— (*with* Tabirca, Tatiana) Some inequalities concerning Smarandache's function.
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Tabirca, Tatiana (*with* Tabirca, Sabin) A generalisation of Euler's function.
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Tang, Yuan Sheng The properties of R-spaces in connection with arithmetic functions. II. (Chinese. English and Chinese summaries) **99f:11011**
Tóth, László *see* **Sándor, József, 99c:11006**
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Wang, Bo Ying[1] (*with* Hou, Yaoping) Multi-extension of arithmetic functions and its applications. (English and Chinese summaries) **99f:11012**
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Yan, Song Y. ★ Perfect, amicable and sociable numbers. (English summary) **99g:11011**

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Benito, Manuel (*with* Varona, Juan L.) Advances in aliquot sequences. (English summary) **99c:11162**
Carlip, Walter (*with* Jacobson, Eliot; Somer, Lawrence) Pseudoprimes, perfect numbers, and a problem of Lehmer. **99g:11013**
Darafsheh, M. R. (*with* Pournaki, M. R.) On the dimensions of cyclic symmetry classes of tensors. (English summary) **99g:15040**
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Dumitrescu, Constantin A. (*with* Rocsoreanu, Carmen) Some connections between the Smarandache function and the Fibonacci sequence.
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Ewell, John A. On Ramanujan's tau function. (English summary) **99g:11059**
Fehér, János On generalized q-multiplicative functions. (English summary) **99d:11090**
Ford, Kevin The distribution of totients. (English summary) **99f:11125**
Guy, Richard K. Nothing's new in number theory? **99k:11002**
Hong, Shao Fang Bounds for determinants of matrices associated with classes of arithmetical functions. (English summary) **99k:15010**
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Le, Mao Hua On primes in the Smarandache pierced chain. (English summary)
— Notes on primes Smarandache progressions. (English summary)
— The primes in the Smarandache symmetric sequence. (English summary)
Luca, Florian On the equation $\varphi(x^m - y^m) = x^n + y^n$. (English summary) **99e:11038**
Mauclaire, Jean-Loup A characterization of some additive arithmetical functions. (English summary) **99k:11149**
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Sander, J. W. On the value distribution of arithmetic functions. (English summary) **99c:11122**
Sándor, József On the irrationality of certain constants related to the Smarandache function.
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Sukla, Indulata On Dirichlet convolution method. (English summary) **99d:11108**
Tang, Yuan Sheng On the regularity properties of multiplicative functions. I, II. (English summary) **99m:11109**
Varona, Juan L. *see* **Benito, Manuel, 99c:11162**
Zarzycki, Piotr Corrigendum to the paper: "On multiplicity sequences" [Fibonacci Quart. **35** (1997), no. 1, 9–10; MR 97m:11004]. **99i:11003**

11A41 Primes

Agoh, Takashi (*with* Erdős, Paul[1]; Granville, Andrew) Primes at a (somewhat lengthy) glance. **99g:11012**
Carlip, Walter (*with* Jacobson, Eliot; Somer, Lawrence) Pseudoprimes, perfect numbers, and a problem of Lehmer. **99g:11013**
Erdős, Paul[1] *see* **Agoh, Takashi; et al., 99g:11012**
Forbes, Anthony D. Prime clusters and Cunningham chains. (English summary) **99m:11007**
Gessel, Ira M. Wolstenholme revisited. **99e:11009**
Gethner, Ellen (*with* Wagon, Stan; Wick, Brian) A stroll through the Gaussian primes. **99b:11006**
Granville, Andrew *see* **Agoh, Takashi; et al., 99g:11012**
Greenfield, Lawrence E. (*with* Greenfield, Stephen J.) Some problems of combinatorial number theory related to Bertrand's postulate. **99k:11012**
Greenfield, Stephen J. *see* **Greenfield, Lawrence E., 99k:11012**
Indlekofer, Karl-Heinz (*with* Járai, Antal) Largest known twin primes and Sophie Germain primes. (English summary) **99k:11013**
Jacobson, Eliot *see* **Carlip, Walter; et al., 99g:11013**
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Le, Mao Hua On primes in the Smarandache pierced chain. (English summary)
— Primes in the sequences $\{n^n + 1\}_{n=1}^{\infty}$ and $\{n^n + 1\}_{n=1}^{\infty}$. (English summary)
— Notes on primes Smarandache progressions. (English summary)
— The primes p with $\lg(p) = 1$. (English summary)
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Goddard, B. *see* **Mollin, R. A., 99g:11126**
Kirnasovs'kiĭ, O. Yu. Properties of composite powers of the polynomial $x^2 - 2$ over arbitrary fields. (Ukrainian) **99d:11023**
Krempa, Jan On reduced rings and number theory. (English summary) **99m:16042**
Mollin, R. A. (*with* Goddard, B.) Quadratic prime-producing polynomials. (English summary) **99g:11126**
Pi, Xin Ming Searching for generalized Fermat primes. (Chinese. English and Chinese summaries) **99i:11118**
Sedrakian, Naïri (*with* Steinig, John) A particular case of Dirichlet's theorem on arithmetic progressions. **99g:11108**
Steinig, John *see* **Sedrakian, Naïri, 99g:11108**
Young, Jeff Large primes and Fermat factors. (English summary) **99a:11010**

11A51 Factorization; primality

Bălăcenoiu, Ion Remarkable inequalities. (*see* **99a:11002**)
Berrizbeitia, Pedro (*with* Berry, T. G.) Cubic reciprocity and generalised Lucas-Lehmer tests for primality of $A \cdot 3^n \pm 1$. (English summary) **99j:11006**
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Brillhart, John Note on Fibonacci primality testing. **99d:11004**
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Dubner, Harvey (*with* Keller, Wilfrid) New Fibonacci and Lucas primes. (English summary) **99c:11008**
Gundewar, G. V. Expression for factorials as the product of some power of distinct prime numbers. (English summary)
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Luca, Florian An inequality between prime powers dividing $n!$. **99i:11005**
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Motose, Kaoru On values of cyclotomic polynomials. III. **99g:11144**

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Bruno, Alexander D. (*with* Parusnikov, V. I.) Comparison of various generalizations of continued fractions. (Russian. Russian summary) **99d:11005**
Castillo, Jose Smarandache continued fractions. (English summary)
Chan, Heng Huat (*with* Huang, Sen-Shan) On the Ramanujan-Göllnitz-Gordon continued fraction. (English summary) **99k:11015**
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— ★ Ramanujan's notebooks. Part V. (English summary) **99f:11024**
— (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Radicals and units in Ramanujan's work. **99m:11125**
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Didier, Gilles Codages de rotations et fractions continues. (English and French summaries) [Codings of rotations and continued fractions] **99f:11029**
Lagarias, Jeffrey C. (*with* Shallit, Jeffrey) Linear fractional transformations of continued fractions with bounded partial quotients. (English and French summaries) **99c:11088**
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— (*with* Cheng, Kell Hiu Fai) Palindromy and ambiguous ideals revisited. (English summary) **99m:11123**
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Oskolkov, V. A. (*with* Sevast'yanov, E. A.) On the Hardy-Littlewood problem. (Russian. Russian summary) **99k:11116**
Palmore, Julian Shadowing by computable orbits of continued fraction convergents for algebraic numbers. II. (English summary) **99d:58096**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C.**, **99f:11024**
Sevast'yanov, E. A. *see* **Oskolkov, V. A.**, **99k:11116**
Shallit, Jeffrey *see* **Lagarias, Jeffrey C.**, **99c:11088**
Somashekara, D. D. *see* **Adiga, Chandrashekar**, **99j:33021**
Son, Seung Hwan Some theta function identities related to the Rogers-Ramanujan continued fraction. (English summary) **99a:33010**
Tamura, Jun-ichi Partitions of the set of positive integers, nonperiodic sequences, and transcendence. **99f:11031**
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11A63 Radix representation; digital problems {For metric results, see 11K16.}

Cooper, Curtis (*with* Kennedy, Robert E.) An explicit expression for large digit sums in base b expansions. (English summary) **99h:11009**
Filipponi, Piero (*with* Hart, Evelyn L.) The Zeckendorf decomposition of certain Fibonacci-Lucas products. **99d:11006**
Grabner, Peter J. (*with* Kirschenhofer, Peter; Prodinger, Helmut) The sum-of-digits function for complex bases. (English summary) **99e:11010**
Hart, Evelyn L. (*with* Sanchis, Laura) On the occurrence of F_n in the Zeckendorf decomposition of nF_n. **99k:11016**
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Tichy, Robert F. Diophantine properties of digital expansions. (English summary) **99g:11016**

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Èminyan, K. M. On a binary problem. (Russian) **99f:11138**
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Tichy, Robert F. *see* **Grabner, Peter J.; et al.**, **99c:11150**

11A67 Other representations

Akiyama, Shigeki Pisot numbers and greedy algorithm. (English summary) **99d:11007**
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— (*with* Panzone, Rafael) On the tame dragon. (English summary) **99c:11010**
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Erdős, Paul[1] (*with* Komornik, Vilmos) Developments in non-integer bases. (English summary) **99e:11132**
Komornik, Vilmos *see* **Erdős, Paul**[1], **99e:11132**
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Ashbacher, Charles Smarandache series converges.
Atanassov, Krassimir T. One extremal problem. VII.
— One extremal problem. VIII.
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Seleacu, Vasile *see* **Bălăcenoiu, Ion**, (**99a:11002**)
Siler, Joseph R. Mean crowds and Pythagorean triples. **99d:11008**

11Bxx Sequences and sets

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11B05 Density, gaps, topology

Anderson, Peter G. *see* **Bruckman, Paul S.**, **99i:11007**
Bae, Jaegug A compactness result for a set of subset-sum-distinct sequences. (English summary) **99k:11018**
Balasubramanian, Ramachandran (*with* Ramana, D. S.) Atkin's theorem on pseudo-squares. (English summary) **99e:11012**
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Frenkel, P. E. Integer sets with distinct subset sums. (English summary) **99a:11012**

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Ruzsa, Imre Z. *see* **Balog, Antal, 99f:11014** *and* **Hegedüs, Pál; et al., 99k:11019**
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Vaidya, A. M. Densities of integer sequences. (English summary) **99g:11017**
— Densities of integer sequences. **99c:11013**

11B13 Additive bases [see also 05B10]

Calkin, Neil J. (*with* Cameron, Peter J.) Almost odd random sum-free sets. (English summary) **99c:11012**
— On the structure of a random sum-free set of positive integers. (English summary) **99f:11015**
Cameron, Peter J. *see* **Calkin, Neil J., 99c:11012**
Cao, Hui-Qin (*with* Sun, Zhi Wei[1]) On sums of distinct representatives. **99k:11021**
Grekos, Georges On the order of a minimal additive basis. (English summary) **99f:11016**
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Kirfel, Christoph *see* **Han, Shu-Ping; et al., 99h:11011**
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Balasubramanian, Ramachandran (*with* Ramana, D. S.) Atkin's theorem on pseudo-squares. (English summary) **99e:11012**
Chen, Yong-Gao On sums and products of integers. (English summary) **99j:11022**
Deshouillers, Jean-Marc On some connections between probability and number theory. (English summary) **99c:11095**
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Stanchescu, Y. On finite difference sets. (English summary) **99c:05034**
Sury, B. The Chevalley-Warning theorem and a combinatorial question on finite groups. (English summary) **99f:20035**

11B25 Arithmetic progressions [see also 11N13]

Alon, Noga (*with* Zaks, Ayal) Progressions in sequences of nearly consecutive integers. (English summary) **99g:11018**
Furstenberg, H. (*with* Glasner, Eli) Subset dynamics and van der Waerden's theorem. **99d:11010**
Glasner, Eli *see* **Furstenberg, H., 99d:11010**
Gunderson, David S. (*with* Rödl, Vojtěch) Extremal problems for affine cubes of integers. (English summary) **99a:11015**
Rödl, Vojtěch *see* **Gunderson, David S., 99a:11015**
Sun, Zhi Wei[1] On covering multiplicity. (English summary) **99h:11012**
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Balog, Antal (*with* Wooley, Trevor D.) On strings of consecutive integers with no large prime factors. (English summary) **99g:11109**
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(Gowers, William Timothy) *see* **Bollobás, Béla, 99k:01048**
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Saradha, N. Squares in products with terms in an arithmetic progression. **99f:11044**
Shorey, T. N. Perfect powers in products of arithmetical progressions with fixed initial term. **99b:11025**
Spencer, Joel H. Geometric discrepancy theory. (English summary) **99g:52032**
Wooley, Trevor D. *see* **Balog, Antal, 99g:11109**

11B34 Representation functions

Chen, Shu *see* **Ji, Wan Hui, 99j:11010**
Fried, Katalin A note on a multiplicative problem. **99e:11014**
Ji, Wan Hui (*with* Chen, Shu) The exponent of an odd prime factor p in a power sum. (Chinese. English and Chinese summaries) **99j:11010**

11B37 Recurrences {For applications to special functions, see 33–XX.}

Barsky, Daniel (*with* Bézivin, Jean-Paul; Schinzel, Andrzej) Une caractérisation arithmétique de suites récurrentes linéaires. (French summary) [An arithmetical characterization of linear recurrence sequences] **99j:11011**
Bézivin, Jean-Paul *see* **Barsky, Daniel; et al., 99j:11011**
Brindza, Béla (*with* Liptai, Kálmán; Szalay, László) On products of the terms of linear recurrences. (English summary) **99e:11015**
Çakçak, Emrah A remark on the minimal polynomial of the product of linear recurring sequences. (English summary) **99b:11009**
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Gauthier, N. Identities for a class of sums involving Horadam's generalized numbers $\{W_n\}$. **99e:11017**
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Horadam, A. F. Morgan-Voyce type generalized polynomials with negative subscripts. **99j:11012**
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Hou, Xin Chang Sieved number sequences. (Chinese. English and Chinese summaries) **99k:11022**
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— *see also* **Brindza, Béla; et al., 99e:11015**
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Lucht, Lutz G. (*with* Peter, Manfred) On the characterization of exponential polynomials. (English summary) **99e:11019**
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Nakamula, Ken (*with* Pethö, Attila) Squares in binary recurrence sequences. **99g:11020**
Ollerton, Richard L. (*with* Shannon, Anthony G.) Some properties of generalized Pascal squares and triangles. **99d:11012**
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Stinchcombe, Adam Michael Recurrence relations for powers of recursion sequences. **99j:11014**
Szalay, László A Diophantine equation concerning linear recurrences. **99f:11018**
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Yu, Chang An The general solution of a trinomial linear recurrence with two indices. (Chinese. English and Chinese summaries) **99a:11016**
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Bazzi, Louay *see* **Akra, Mohamad, 99c:68115**
Bézivin, Jean-Paul Sur les suites presque-périodiques. (English summary) [On almost periodic sequences] **99d:11091**
Brennan, Thomas *see* **Harrison, John Watkins; et al., 99m:05001**
Dujella, Andrej The problem of the extension of a parametric family of Diophantine triples. (English summary) **99a:11030**
Ferretti, Roberto Giorgio An estimate for the multiplicity of binary recurrences. (English and French summaries) **99f:11086**
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Harrison, John Watkins (*with* Brennan, Thomas; Gapinski, Steven) The Gergonne p-pile problem and the dynamics of the function $x \mapsto \lfloor (x+r)/p \rfloor$. (English summary) **99m:05001**
Kooman, R. J. Asymptotic behaviour of solutions of linear recurrences and sequences of Möbius-transformations. (English summary) **99k:39020**
Liptai, Kálmán On a Diophantine equation. (English summary) **99f:11035**
Moree, Pieter Improvement of an estimate of H. Müller involving the order of 2 (mod u). (English summary) **99m:11111**
Morgan, Mark D. The distribution of second order linear recurrence sequences mod 2^m. **99e:11021**
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Qi, Wen Feng (*with* Zhou, Jin Jun) Distribution of 0 and 1 in the highest level of primitive sequences over $\mathbf{Z}/(2^e)$. II. (English summary) **99m:11015**
Ramasamy, A. M. S. Relationship between the solutions of the Pell's equations $A^2 - DB^2 = 1$ and $A^2 - 2B^2 = \pm 1$. (English summary) **99f:11036**
Rémy, Jean-Luc *see* **Pétermann, Y.-F. S., 99k:11035**
Samaké, Karim Les zéros de certaines suites récurrentes linéaires. (English and French summaries) [The zeros of certain linear recurrent sequences] **99a:11091**
Schlickewei, Hans Peter The subspace theorem and applications. (English summary) **99h:11075**
— (*with* Schmidt, Wolfgang M.; Waldschmidt, Michel) Zeros of linear recurrence sequences. (English summary) **99m:11034**
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Udrea, Gheorghe The Diophantine equations $x^2 - k = T_n(a^2 \pm 1)$. **99f:11038**
Waldschmidt, Michel *see* **Schlickewei, Hans Peter; et al., 99m:11034**
Wirsching, Günther J. ★ The dynamical system generated by the $3n + 1$ function. **99g:11027**
Yu, Chang An A formula for solving nonhomogeneous two-parameter trinomial recurrences. (Chinese. English and Chinese summaries) **99f:39013**
Zeilberger, Doron *see* **Foata, Dominique, 99h:11019**
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11B39 Fibonacci and Lucas numbers and polynomials and generalizations

André-Jeannin, Richard On the integrity of certain infinite series. **99c:11014**
Danchev, Stefan S. A closed form of the $(2, F)$ generalizations of the Fibonacci sequence.
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Gargano, Michael L. (*with* Malerba, Joseph F.) Binary Fibonacci strings. (English summary) **99j:11016**
Greenfield, Stephen J. *see* **Duke, William; et al., 99k:11024**
Harne, Sanjay K. (*with* Parihar, C. L.) Generalized Fibonacci numbers use in determinants. (English summary)
Hart, Evelyn L. On using patterns in beta-expansions to study Fibonacci-Lucas products. **99k:11025**
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Jamieson, Michael Pell and Pell-Lucas numbers and acceleration of convergence. (English summary) **99i:11010**
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Jin, Jingyu *see* **Zhang, Zhi Zheng**
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Kaplan, Abdullah *see* **Işık, Ahmet**
Kiss, Péter *see* **Jones, James P., 99g:11022**
Kohno, Yoshifumi (*with* Uehara, Tsuyoshi) A congruence relation for generalized Fibonacci numbers and its formal-group-law interpretation. (English summary) **99f:11019**
Kwaśniewski, A. K. *see* **Jaroszewski, I.**
Lin, Da Zheng Fibonacci matrices. **99m:11011**
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McDaniel, Wayne L. (*with* Ribenboim, Paulo) Square-classes in Lucas sequences having odd parameters. (English summary) **99j:11017**
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— *see also* **Ribenboim, Paulo, 99j:11019**
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Moree, Pieter Counting divisors of Lucas numbers. (English summary) **99m:11013**
Morgan, Mark D. The distribution of second order linear recurrence sequences mod 2^m. **99e:11021**
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Pedersen, Jean *see* **Hilton, Peter, 99e:11020**
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Ribenboim, Paulo (*with* McDaniel, Wayne L.) Squares in Lucas sequences having an even first parameter. **99j:11019**
— *see also* **McDaniel, Wayne L., 99j:11017**
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Rotkiewicz, A. Arithmetical progressions formed by Lucas pseudoprimes. **99f:11020**
Speer, Eugene R. *see* **Duke, William; et al., 99k:11024**
Uehara, Tsuyoshi *see* **Kohno, Yoshifumi, 99f:11019**
Wilson, Brad The Fibonacci triangle modulo p. **99d:11014**
Wolfram, D. A. Solving generalized Fibonacci recurrences. **99c:11015**
Zhang, Zhi Zheng (*with* Jin, Jingyu) Some identities involving generalized Genocchi polynomials and generalized Fibonacci-Lucas sequences.
Zhou, Chizhong A general conclusion on Lucas numbers of the form px^2 where p is prime. **99m:11014**

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Ashbacher, Charles ★ Pluckings from the tree of Smarandache sequences and functions. **99j:11005**
Brillhart, John Note on Fibonacci primality testing. **99d:11004**
Bruckman, Paul S. (*with* Anderson, Peter G.) Conjectures on the Z-densities of the Fibonacci sequence. **99i:11007**
Cuccoli, Mauro (*with* Ricci, Paolo Emilio) A characterization of the Chebyshev and Fibonacci polynomials. (English summary) **99f:33008**
Dikici, Ramazan A technique concerning sums arising from Fibonacci sequence in groups. (English and Turkish summaries) **99d:20067**
Djordjević, Gospava B. Some properties of a class of polynomials. (English summary) **99e:11016**
Dubner, Harvey (*with* Keller, Wilfrid) New Fibonacci and Lucas primes. (English summary) **99c:11008**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series and related results. (English summary) **99h:11078**
Filipponi, Piero (*with* Hart, Evelyn L.) The Zeckendorf decomposition of certain Fibonacci-Lucas products. **99d:11006**
Harne, Sanjay K. Waiting for the k-th consecutive success and the Lucas sequence of order k. (English summary)
Hart, Evelyn L. (*with* Sanchis, Laura) On the occurrence of F_n in the Zeckendorf decomposition of nF_n. **99k:11016**
— *see also* **Filipponi, Piero, 99d:11006**
Kagawa, Takaaki (*with* Terai, Nobuhiro) Squares in Lucas sequences and some Diophantine equations. **99i:11019**
Keller, Wilfrid *see* **Dubner, Harvey, 99c:11008**
Ma, Xin Rong A generalization of the Kummer identity and its application to Fibonacci-Lucas sequences. **99k:11027**
Müller, Siguna M. S. On strong Lucas pseudoprimes. (English summary) **99k:11008**
— Carmichael numbers and Lucas tests. (English summary) **99m:11008**
Nguyen-Huu-Bong Lucas numbers and the ménage problem. (English summary) **99j:05007**
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Nishioka, Kumiko *see* **Duverney, Daniel; et al., 99h:11078**
Ribenboim, Paulo An algorithm to determine the points with integral coordinates in certain elliptic curves. (English summary) **99j:11028**
Ricci, Paolo Emilio *see* **Cuccoli, Mauro, 99f:33008**
Rieger, Georg Johann The golden section and Newton approximation.
Robbins, Neville Lucas partitions. (English summary) **99a:11115**
Sanchis, Laura *see* **Hart, Evelyn L., 99k:11016**
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Strauch, Oto A numerical integration method using the Fibonacci numbers. (English summary) **99h:65038**
Terai, Nobuhiro *see* **Kagawa, Takaaki, 99i:11019**
Voutier, Paul M. Primitive divisors of Lucas and Lehmer sequences. III. (English summary) **99b:11027**
Zhu, Yao Chen Irrationality of certain series. (Chinese. English and Chinese summaries) **99c:11090**

11B50 Sequences (mod m)

Ding, Cunsheng Linear complexity of generalized cyclotomic binary sequences of order 2. (English summary) **99a:11017**
— Linear complexity of some generalized cyclotomic sequences. (English summary) **99k:11026**
Kamlovskiĭ, O. V. (*with* Kuz′min, A. S.) Distribution of elements on cycles of linear recurrent sequences over Galois rings. (Russian) **99e:11022**
Kuz′min, A. S. *see* **Kamlovskiĭ, O. V., 99e:11022**
Qi, Wen Feng (*with* Zhou, Jin Jun) The 0, 1 distribution of the highest power digits of primitive sequences over the ring $\mathbf{Z}(2^3)$. II. (Chinese)
— (*with* Zhou, Jin Jun) Distribution of 0 and 1 in the highest level of primitive sequences over $\mathbf{Z}/(2^e)$. II. (English summary) **99m:11015**
Zhou, Jin Jun *see* **Qi, Wen Feng, 99m:11015**

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Halbeisen, Lorenz (*with* Hungerbühler, Norbert) The Josephus problem. (English and French summaries) **99c:11022**
Hungerbühler, Norbert *see* **Halbeisen, Lorenz, 99c:11022**
Morgan, Mark D. The distribution of second order linear recurrence sequences mod 2^m. **99e:11021**
Volodin, Nikolai A. Multinomial coefficients modulo a prime. (English summary) **99c:11019**

11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$

Konvalina, John A note on a generalization of Waring's formula. (English summary) **99f:11021**

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Indlekofer, Karl-Heinz (*with* Stakėnas, V.) Multiplicative functions of Farey fractions. (English summary) **99h:11111**
Kanemitsu, Shigeru Some sums involving Farey fractions. **99g:11099**
— (*with* Yoshimoto, Masami) Farey fractions and the Riemann hypothesis. (Japanese) (*see* **98c:11002**)
— (*with* Yoshimoto, Masami) Farey series and the Riemann hypothesis. III. (English summary) **99e:11118**
Saradha, N. Squares in products with terms in an arithmetic progression. **99f:11044**
Stakėnas, V. *see* **Indlekofer, Karl-Heinz, 99h:11111**
Stechkin, Sergeĭ Borisovich Farey sequences. (Russian. Russian summary) **99g:11103**
Yoshimoto, Masami Farey series and the Riemann hypothesis. II. (English summary) **99e:11117**
— *see also* **Kanemitsu, Shigeru, 99e:11118** *and* (**98c:11002**)

11B65 Binomial coefficients; factorials; q-identities [see also 05A10, 05A30]

Agarwal, Ratan Prakash The discovery of Ramanujan's treasure. I.
Andrews, George E. Simplicity and surprise in Ramanujan's "lost" notebook. **99c:11016**
Barbolosi, Dominique (*with* Grabner, Peter J.) Distribution des coefficients multinomiaux et q-binomiaux modulo p. (English summary) [Distribution of multinomial and q-binomial coefficients modulo p] **99h:11013**

Berend, Daniel (*with* Harmse, Jørgen E.) On some arithmetical properties of middle binomial coefficients. **99a:11018**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's class invariants with applications to the values of q-continued fractions and theta functions. (English summary) **99c:11017**
Bhargava, Srinivasamurthy On a cubic modular identity. (English summary) **99d:11015**
Calkin, Neil J. Factors of sums of powers of binomial coefficients. **99i:11011**
Campbell, Geoffrey B. Visible point vector summations from hypercube and hyperpyramid lattices. (English summary) **99h:11014**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 99c:11017**
Chen, Yong-Gao (*with* Ji, Chun Gang) The number of multinomial coefficients not divided by a prime. (English summary) **99j:11020**
Chu, Wenchang Many identities from one. (English summary) **99d:11016**
Denk, Robert (*with* Warlimont, Richard) On a queer binomial sum. (English summary) **99h:11015**
Dumitrescu, Constantin A. (*with* Muller, R.) To enjoy is a permanent component of mathematics.
Ericksen, Larry The Pascal-de Moivre triangles. **99c:11018**
Franco, Zachary M. Distribution of binomial coefficients modulo p. **99d:11017**
Goetgheluck, P. Infinite families of solutions of the equation $\binom{n}{k} = 2\binom{a}{b}$. (English summary) **99a:11019**
Gordon, Basil (*with* McIntosh, Richard J.) Algebraic dilogarithm identities. (English summary) **99b:11010**
Grabner, Peter J. *see* **Barbolosi, Dominique, 99h:11013**
Granville, Andrew Arithmetic properties of binomial coefficients. I. Binomial coefficients modulo prime powers. **99h:11016**
Grimaldi, Ralph P. The Catalan numbers as compositions of squares. **99m:11016**
Haggard, Paul W. Pythagorean triples and sums of triangular numbers. (English summary) **99f:11022**
Harmse, Jørgen E. *see* **Berend, Daniel, 99a:11018**
Hirschhorn, Michael D. Two or three identities of Ramanujan. **99b:11011**
Huard, James G. (*with* Spearman, Blair K.; Williams, Kenneth S.) Pascal's triangle (mod 8). (English summary) **99b:11012**
Ji, Chun Gang *see* **Chen, Yong-Gao, 99j:11020**
Lange, Ehler (*with* Peitgen, Heinz-Otto; Skordev, Gencho S.) Fractal patterns in Gaussian and Stirling number tables. (English summary) **99f:11023**
Ma, Xin Rong A generalization of the Kummer identity and its application to Fibonacci-Lucas sequences. **99k:11027**
McIntosh, Richard J. *see* **Gordon, Basil, 99b:11010**
Muller, R. *see* **Dumitrescu, Constantin A.**
Nyblom, Michael On a generalization of the binomial theorem. **99m:11017**
Peitgen, Heinz-Otto *see* **Lange, Ehler; et al., 99f:11023**
Pla, Juan The sum of inverses of binomial coefficients revisited. **99b:11013**
Schilling, Anne (*with* Warnaar, S. Ole) A higher level Bailey lemma: proof and application. (English summary) **99k:11028**
Skordev, Gencho S. *see* **Lange, Ehler; et al., 99f:11023**
Spearman, Blair K. *see* **Huard, James G.; et al., 99b:11012**
Volodin, Nikolai A. Multinomial coefficients modulo a prime. (English summary) **99c:11019**
Warlimont, Richard *see* **Denk, Robert, 99h:11015**
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Adiga, Chandrashekar (*with* Somashekara, D. D.) On some Rogers-Ramanujan type continued fraction identities. (English summary) **99j:33021**
Aguiar, Marcelo Braids, q-binomials, and quantum groups. (English summary) **99b:05007**
Andrews, George E. The well-poised thread: an organized chronicle of some amazing summations and their implications. (English summary) **99a:11116**
Berkovich, Alexander (*with* McCoy, Barry M.; Schilling, Anne) Rogers-Schur-Ramanujan type identities for the $M(p, p')$ minimal models of conformal field theory. (English summary) **99d:81047**
Bès, Alexis On Pascal triangles modulo a prime power. (English summary) **99a:11144**
— (*with* Korec, Ivan) Definability within structures related to Pascal's triangle modulo an integer. (English summary) **99j:03007**
Borwein, Jonathan M. (*with* Borwein, Peter B.) ★ Pi and the AGM. **99h:11147**
Borwein, Peter B. *see* **Borwein, Jonathan M., 99h:11147**
De Smedt, Stany On Sloane's sequence 1484. **99b:11133**
Haukkanen, Pentti Binomial formulas for specially multiplicative functions. **99e:11005**
Hosoya, Haruo Pascal's triangle, non-adjacent numbers, and D-dimensional atomic orbitals. (English summary) **99c:81277**
Kaneko, Jyoichi Constant term identities of Forrester-Zeilberger-Cooper. (English summary) **99d:33024**
Katriel, Jacob Stirling number identities: interconsistency of q-analogues. (English summary) **99g:33048**
Korec, Ivan Undecidability and uniform definability in classes of structures related to Pascal triangles modulo n. (English summary) **99a:03008**
— Elementary definability from Pascal's triangle modulo p and the set of eth powers. (English summary) **99e:11152**
— *see also* **Bès, Alexis, 99j:03007**
McCoy, Barry M. *see* **Berkovich, Alexander; et al., 99d:81047**
McIntosh, Richard J. Asymptotic transformations of q-series. (English summary) **99k:33049**
Nishizawa, Michitomo *see* **Ueno, Kimio, 99k:11136**
Satoh, Junya Sums of products of two q-Bernoulli numbers. (English summary) **99m:11019**
Schilling, Anne *see* **Berkovich, Alexander; et al., 99d:81047**
Schlosser, Michael Multidimensional matrix inversions and A_r and D_r basic hypergeometric series. (English summary) **99b:33036**
Somashekara, D. D. *see* **Adiga, Chandrashekar, 99j:33021**
Son, Seung Hwan Some theta function identities related to the Rogers-Ramanujan continued fraction. (English summary) **99a:33010**
— Cubic identities of theta functions. (English summary) **99i:33018**
Srivastava, Bhaskar Some new identities of the Rogers-Ramanujan type. **99k:33059**
Ueno, Kimio (*with* Nishizawa, Michitomo) Quantum groups and zeta-functions. (English summary) **99k:11136**
Varouchas, Jean Démonstration élémentaire d'une identité de Lorenz. (English summary) [Elementary proof of a Lorenz identity] **99m:11045**
Wilson, Brad The Fibonacci triangle modulo p. **99d:11014**
Zhang, Zhi Zheng A binomial identity related to Calkin's. (English summary) **99k:05005**
— A kind of binomial identity. (English summary) **99k:05006**
Zhao, Feng Zhen New proofs of a class of q-series identities. (Chinese. English and Chinese summaries)

11B68 Bernoulli and Euler numbers and polynomials

Adelberg, Arnold 2-adic congruences of Nörlund numbers and of Bernoulli numbers of the second kind. (English summary) **99m:11018**
Berndt, Bruce C. ★ Ramanujan's notebooks. Part V. (English summary) **99f:11024**
Chu, Wei Pan *see* **Dang, Si Shan, 99d:11018**
Cvijović, Djurdje (*with* Klinowski, Jacek) Algebraic trigonometric numbers. (English summary) **99g:11023**
Dang, Si Shan (*with* Chu, Wei Pan) Some identities involving Euler numbers, Bernoulli numbers, and generalized Stirling numbers of the first kind. (Chinese. English and Chinese summaries) **99d:11018**
— Summation formulas for some series related to the Riemann zeta function. (Chinese. English and Chinese summaries) **99k:11029**
Eie, Minking (*with* Lai, King F.) On Bernoulli identities and applications. (English summary) **99h:11017**
Hauss, Michael A Boole-type formula involving conjugate Euler polynomials. (English summary) **99k:11030**
Jakubec, Stanislav Note on Wieferich's congruence for primes $p \equiv 1 \pmod 4$. **99i:11012**
Klinowski, Jacek *see* **Cvijović, Djurdje, 99g:11023**
Lai, King F. *see* **Eie, Minking, 99h:11017**
Liu, Guo Dong n-variable Euler numbers and polynomials, and n-variable Bernoulli numbers and polynomials. (Chinese. English and Chinese summaries) **99k:11031**
Nikulin, Mikhail S. *see* **Voinov, V. G.**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 99f:11024**
Satoh, Junya Sums of products of two q-Bernoulli numbers. (English summary) **99m:11019**
Shevelev, V. S. On an arithmetic property of permutation numbers with a given signature associated with the Morse sequence. (Russian. English and Russian summaries) **99e:11023**
Simalarides, A. Congruences mod p^n for the Bernoulli numbers. **99e:11024**
Temme, Nico M. Bernoulli polynomials old and new: problems in complex analysis and asymptotics. (English summary) **99a:11020**
Treiber, Dietmar Zur Kurvendiskussion der Potenzsummenpolynome. (German summary) [On the curve discussion of power sum polynomials] **99m:11020**
Voinov, V. G. (*with* Nikulin, Mikhail S.) Corrigendum: "Generating functions, problems of additive number theory, and some statistical applications" [Rev. Roumaine Math. Pures Appl. **40** (1995), no. 2, 107–147; MR 97e:11030]. **Zagier, Don** A modified Bernoulli number. **99i:11013**

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Alili, Larbi (*with* Donati-Martin, Catherine; Yor, Marc) Une identité en loi remarquable pour l'excursion brownienne normalisée. [A remarkable identity in law for a normalized Brownian excursion] **99i:60153**
Arlettaz, Dominique Die Bernoulli-Zahlen: eine Beziehung zwischen Topologie und Gruppentheorie. (German summary) [The Bernoulli numbers: a relation between topology and group theory] **99e:55012**
Bondarenko, B. A. (*with* Karachik, V. V.; Tulyaganov, R. B.) Distribution of Eulerian and Stirling numbers mod p in arithmetical triangles. (Russian and Uzbek summaries) **99c:05006**
Danković, Bratislav M. *see* **Stanković, Miomir S.; et al., 99c:26019**
Donati-Martin, Catherine *see* **Alili, Larbi; et al., 99i:60153**
Dumont, Dominique (*with* Zeng, Jiang) Polynômes d'Euler et fractions continues de Stieltjes-Rogers. (English summary) [Euler polynomials and Stieltjes-Rogers continued fractions] **99i:05008**
Frappier, Clément Representation formulas for entire functions of exponential type and generalized Bernoulli polynomials. (English summary) **99i:30045**
Fukuhara, Shinji The space of period polynomials. **99i:11027**
Gunaratne, H. Sunil μ and λ invariants of a p-adic measure. (English summary) **99e:11146**
Karachik, V. V. *see* **Bondarenko, B. A.; et al., 99c:05006**
Robbins, Neville Wilson's theorem via Eulerian numbers. **99g:11006**
Stanković, Miomir S. (*with* Danković, Bratislav M.; Tričković, Slobodan B.) Some inequalities involving harmonic numbers. (English summary) **99c:26019**
Tričković, Slobodan B. *see* **Stanković, Miomir S.; et al., 99c:26019**
Tulyaganov, R. B. *see* **Bondarenko, B. A.; et al., 99c:05006**
Yor, Marc *see* **Alili, Larbi; et al., 99i:60153**
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11B73 Bell and Stirling numbers

Bera, Soumendra Some interesting results on a new combinatorial arithmetic function. (English summary) **99g:11024**
Hsu, Leetsch Charles (*with* Yu, Hongquan) On mutual representations of symmetrically weighted Stirling-type pairs with applications. (English summary) **99b:11014**
— (*with* Shiue, Peter Jau-Shyong) A unified approach to generalized Stirling numbers. (English summary) **99c:11020**

Michel, Reinhard Aspekte der Stirlingschen Zahlen zweiter Art. (German summary) [Aspects of Stirling numbers of the second kind] **99e:11025**
Olive, Gloria *see* **Scurr, Raymond**, **99d:11019**
Scurr, Raymond (*with* Olive, Gloria) Stirling numbers revisited. (English summary) **99d:11019**
Shiue, Peter Jau-Shyong *see* **Hsu, Leetsch Charles**, **99c:11020**
Timashev, A. N. On asymptotic expansions of Stirling numbers of the first and second kinds. (Russian. Russian summary) **99m:11021**
Yu, Hongquan A generalization of Stirling numbers. **99g:11025**
— *see also* **Hsu, Leetsch Charles**, **99b:11014**

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Bondarenko, B. A. (*with* Karachik, V. V.; Tulyaganov, R. B.) Distribution of Eulerian and Stirling numbers mod p in arithmetical triangles. (Russian and Uzbek summaries) **99c:05006**
Karachik, V. V. *see* **Bondarenko, B. A.; et al.**, **99c:05006**
Katriel, Jacob Stirling number identities: interconsistency of q-analogues. (English summary) **99g:33048**
Li, Chao Xing Generalized Lah numbers and their properties. (Chinese. English and Chinese summaries)
Nyblom, Michael On a generalization of the binomial theorem. **99m:11017**
Tulyaganov, R. B. *see* **Bondarenko, B. A.; et al.**, **99c:05006**

11B75 Other combinatorial number theory

Aigner, Martin (*with* Schulze, Volker) Sum-difference sequences and Catalan numbers. (English summary) **99m:11022**
Alesina, Alberto[1] (*with* Galuzzi, Massimo) A new proof of Vincent's theorem. (English summary) **99j:11021**
Ashbacher, Charles Palindromic numbers and iterations of the pseudo-Smarandache function. (*see* **99a:11002**)
Bae, Jaegug An extremal problem for subset-sum-distinct sequences with congruence conditions. (English summary) **99h:11018**
Chen, Yong-Gao Sequences with bounded l.c.m. of each pair of terms. **99b:11015**
— On sums and products of integers. (English summary) **99j:11022**
Clark, D. A. An upper bound of $\sum 1/(a_i \log a_i)$ for quasi-primitive sequences. (English summary) **99a:11021**
Coven, Ethan M. (*with* Meyerowitz, Aaron) Tiling the integers with translates of one finite set. (English summary) **99k:11032**
Eliahou, Shalom (*with* Kervaire, Michel A.) Sumsets in vector spaces over finite fields. (English summary) **99d:11020**
Ewell, John A. A trio of triangular number theorems.
Ford, Kevin Sums and products from a finite set of real numbers. (English summary) **99i:11014**
Galuzzi, Massimo *see* **Alesina, Alberto[1]**, **99j:11021**
Harcos, Gergely (*with* Ruzsa, Imre Z.) A problem on zero subsums in abelian groups. (English summary) **99f:11025**
Ibstedt, Henry An integer as a sum of consecutive integers. (English summary)
Kervaire, Michel A. *see* **Eliahou, Shalom**, **99d:11020**
Lev, Vsevolod F. On the number of solutions of a linear equation over finite sets. (English summary) **99k:11033**
Lindström, Bernt Well distribution of Sidon sets in residue classes. (English summary) **99c:11021**
Meyerowitz, Aaron *see* **Coven, Ethan M.**, **99k:11032**
Ruzsa, Imre Z. A small maximal Sidon set. (English summary) **99g:11026**
— *see also* **Harcos, Gergely**, **99f:11025**
Schulze, Volker *see* **Aigner, Martin**, **99m:11022**
Varshamov, R. R. On a method for ordering a set of integers. (Russian. Armenian summary)

Items with secondary classifications in 11B75

Aigner, Martin Motzkin numbers. (English summary) **99m:05003**
Ashbacher, Charles ★ Pluckings from the tree of Smarandache sequences and functions. **99j:11005**
Bilu, Yuri F. The $(\alpha + 2\beta)$-inequality on a torus. (English summary) **99j:11009**
Calkin, Neil J. (*with* Cameron, Peter J.) Almost odd random sum-free sets. (English summary) **99c:11012**
— On the structure of a random sum-free set of positive integers. (English summary) **99f:11015**
Cameron, Peter J. *see* **Calkin, Neil J.**, **99c:11012**
Cao, Hui-Qin (*with* Sun, Zhi Wei[1]) On sums of distinct representatives. **99k:11021**
Downarowicz, Tomasz (*with* Lacroix, Y.) Merit factors and Morse sequences. (English summary) **99i:11015**
Franco, Zachary M. Distribution of binomial coefficients modulo p. **99d:11017**
Frenkel, P. E. Integer sets with distinct subset sums. (English summary) **99a:11012**
Greenfield, Lawrence E. (*with* Greenfield, Stephen J.) Some problems of combinatorial number theory related to Bertrand's postulate. **99k:11012**
Greenfield, Stephen J. *see* **Greenfield, Lawrence E.**, **99k:11012**
Han, Shu-Ping (*with* Kirfel, Christoph; Nathanson, Melvyn B.) Linear forms in finite sets of integers. (English summary) **99h:11011**
Hansel, Georges Systèmes de numération indépendants et syndéticité. [Independent numeration systems and syndeticity] **99g:68112**
Joseph, John A. A chaotic extension of the $3x + 1$ function to $\mathbf{Z}_2[i]$. **99f:11026**
Kirfel, Christoph *see* **Han, Shu-Ping; et al.**, **99h:11011**
Lacroix, Y. *see* **Downarowicz, Tomasz**, **99i:11015**
Lev, Vsevolod F. On consecutive subset sums. (English summary) **99d:11009**
Nathanson, Melvyn B. *see* **Han, Shu-Ping; et al.**, **99h:11011**
Ruzsa, Imre Z. On the additive completion of primes. **99j:11121**
Sun, Zhi Wei[1] *see* **Cao, Hui-Qin**, **99k:11021**

11B83 Special sequences and polynomials

Chen, Xi Geng (*with* Le, Mao Hua) The module periodicity of Smarandache concatenated odd sequence. (English summary)
Erdős, Paul[1] (*with* Joó, István; Komornik, Vilmos) On the sequence of numbers of the form $\varepsilon_0 + \varepsilon_1 q + \cdots + \varepsilon_n q^n$, $\varepsilon_i \in \{0, 1\}$. **99a:11022**
Filipponi, Piero On the numbers that preserve their fractional parts when raised to negative powers. (English summary) **99k:11034**
Foata, Dominique (*with* Zeilberger, Doron) A classic proof of a recurrence for a very classical sequence. **99h:11019**
Halbeisen, Lorenz (*with* Hungerbühler, Norbert) The Josephus problem. (English and French summaries) **99c:11022**
Hungerbühler, Norbert *see* **Halbeisen, Lorenz**, **99c:11022**
Ibstedt, Henry A few Smarandache integer sequences. (English summary) (*see* **99a:11002**)
Joó, István *see* **Erdős, Paul[1]; et al.**, **99a:11022**
Joseph, John A. A chaotic extension of the $3x + 1$ function to $\mathbf{Z}_2[i]$. **99f:11026**
Komornik, Vilmos *see* **Erdős, Paul[1]; et al.**, **99a:11022**
Le, Mao Hua (*with* Wu, Ke Jian) A note on the primes in Smarandache unary sequence. (English summary)
— (*with* Wu, Ke Jian) The primes in Smarandache power product sequences. (English summary)
— On Smarandache concatenated sequences. I. Prime power sequences. (English summary)
— Primes in the Smarandache square product sequence. (English summary)
— On the intersected Smarandache product sequences. (English summary)
— On Smarandache concatenated sequences. II. Factorial sequence. (English summary)
— *see also* **Chen, Xi Geng** *and* **Wu, Ke Jian**
Lin, Chyi-Lung Obtaining dividing formulas $n \mid Q(n)$ from iterated maps. **99b:11016**
Pétermann, Y.-F. S. (*with* Rémy, Jean-Luc) Golomb's self-described sequence and functional-differential equations. (English summary) **99k:11035**
Pinn, Klaus Order and chaos in Hofstadter's $Q(n)$ sequence. (English summary) **99k:11036**
Popov, M. R. The Smarandache periodical sequences.
Rémy, Jean-Luc *see* **Pétermann, Y.-F. S.**, **99k:11035**
Sándor, József On the irrationality of certain alternative Smarandache series. (*see* **99a:11002**)
Singh, U. B. A note on the generalized Alder polynomials. **99d:11021**
de Spinadel, Vera W. New Smarandache sequences: the family of metallic means. (English summary) (*see* **99a:11002**)
Stolarsky, Kenneth B. A prelude to the $3x + 1$ problem. (English summary) **99k:11037**
Widmer, Lamarr Construction of elements of the Smarandache square-partial-digital subsequence. (*see* **99a:11002**)
Wirsching, Günther J. ★ The dynamical system generated by the $3n + 1$ function. **99g:11027**
Wu, Ke Jian (*with* Le, Mao Hua) On the perfect squares in Smarandache concatenated square sequence. (English summary)
— *see also* **Le, Mao Hua**
Zeilberger, Doron *see* **Foata, Dominique**, **99h:11019**

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Aigner, Martin Motzkin numbers. (English summary) **99m:05003**
Andrei, Ştefan (*with* Masalagiu, Cristian) About the Collatz conjecture. (English summary) **99d:68097**
Chen, Rui-Chen *see* **Jiang, Sheng**, **99i:11016**
Chen, Yong-Gao Sequences with bounded l.c.m. of each pair of terms. **99b:11015**
Cooper, Shaun The Macdonald identities for G_2 and some extensions. (English summary) **99k:33056**
Djordjević, Gospava B. On a generalization of a class of polynomials. **99d:11011**
Everest, G. R. (*with* Shparlinski, Igor E.) Counting the values taken by algebraic exponential polynomials. (English summary) **99f:11042**
Imada, Naotaka A sparse matrix and the Catalan numbers. **99b:11019**
Jiang, Sheng (*with* Chen, Rui-Chen) Digits reversed Pythagorean triples. (English summary) **99i:11016**
Jiang, Zhike *see* **Linek, Václav**, **99j:05032**
Linek, Václav (*with* Jiang, Zhike) Hooked k-extended Skolem sequences. (English summary) **99j:05032**
Masalagiu, Cristian *see* **Andrei, Ştefan**, **99d:68097**
Shparlinski, Igor E. *see* **Everest, G. R.**, **99f:11042**
Siler, Joseph R. Mean crowds and Pythagorean triples. **99d:11008**
Udrea, Gheorghe The Diophantine equations $x^2 - k = 2 \cdot T_n((b^2 \pm 2)/2)$. **99k:11053**

11B85 Automata sequences

Allouche, Jean-Paul Note on the transcendence of a generating function. (English summary) **99k:11038**
— (*with* von Haeseler, Fritz; Lange, Ehler; Petersen, Antje; Skordev, Gencho S.) Linear cellular automata and automatic sequences. (English summary) **99a:11023**
— (*with* Peyrière, J.; Wen, Zhi Xiong; Wen, Zhi Ying) Hankel determinants of the Thue-Morse sequence. (English and French summaries) **99a:11024**
— (*with* Shallit, Jeffrey) Generalized perturbed symmetry. (English summary) **99f:11027**
Arnoux, Pierre (*with* Ferenczi, Sébastien; Hubert, Pascal) Trajectories of rotations. **99k:11039**
Beals, Robert M. (*with* Thakur, Dinesh S.) Computational classification of numbers and algebraic properties. **99g:11028**
Cassaigne, Julien On a conjecture of J. Shallit. (English summary) **99a:11025**
Choukri, K. *see* **Jeannet, B.; et al.**, **99f:11030**
Didier, Gilles Échanges de trois d'intervalles et suites sturmiennes. (English and French summaries) [Exchanges of three intervals and Sturmian sequences] **99d:11022**
— Combinatoire des codages de rotations. [Combinatorics of codings of rotations] **99f:11028**
— Codages de rotations et fractions continues. (English and French summaries) [Codings of rotations and continued fractions] **99f:11029**

Downarowicz, Tomasz (*with* Lacroix, Y.) Merit factors and Morse sequences. (English summary) **99i:11015**
Ferenczi, Sébastien *see* **Arnoux, Pierre; et al., 99k:11039**
Gazeau, Jean Pierre (*with* Miękisz, Jacek) A symmetry group of a Thue-Morse quasicrystal. (English summary) **99j:11023**
von Haeseler, Fritz (*with* Petersen, Antje) Automaticity of rational functions. (English summary) **99g:11029**
— *see also* **Allouche, Jean-Paul; et al., 99a:11023**
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Jeannet, B. (*with* Huillet, Thierry; Choukri, K.) Marches pseudo-aléatoires issues de substitutions: aspects statistiques. (English and French summaries) [Pseudorandom walks arising from substitutions: statistical aspects] **99f:11030**
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Lange, Ehler *see* **Allouche, Jean-Paul; et al., 99a:11023**
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Petersen, Antje *see* **Allouche, Jean-Paul; et al., 99a:11023** *and* **von Haeseler, Fritz, 99g:11029**
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Pomerance, Carl (*with* Robson, John Michael; Shallit, Jeffrey) Automaticity. II. Descriptional complexity in the unary case. (English summary) **99a:11026**
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Shallit, Jeffrey Automaticity. IV. Sequences, sets, and diversity. (English and French summaries) **99a:11027a**
— *see also* **Pomerance, Carl; et al., 99a:11026**; **Allouche, Jean-Paul, 99f:11027** *and* **Errata: "Automacity. IV. Sequences, sets, and diversity", 99a:11027b**
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Tamura, Jun-ichi Partitions of the set of positive integers, nonperiodic sequences, and transcendence. **99f:11031**
Tapsoba, Théodore Suites automatiques et papiers pliés. (English and French summaries) [Automatic sequences and folded papers] **99c:11023**
Thakur, Dinesh S. *see* **Beals, Robert M., 99g:11028**
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Allouche, Jean-Paul (*with* Thakur, Dinesh S.) Automata and transcendence of the Tate period in finite characteristic. (English summary) **99h:11056**
Avishai, Yshai (*with* Berend, Daniel; Tkachenko, Vadim) Trace maps. (English summary) **99b:82045**
Berend, Daniel *see* **Avishai, Yshai; et al., 99b:82045**
Bratteli, Ola (*with* Jorgensen, Palle E. T.) Iterated function systems and permutation representations of the Cuntz algebra. (English summary) **99k:46094a**
Chuan, Wai-fong Unbordered factors of the characteristic sequences of irrational numbers. (English summary) **99h:68139**
Huang, Yun Bao Conditions for powers of C^∞-words to be C^∞-words. I. (Chinese. English and Chinese summaries) **99b:68153**
Jorgensen, Palle E. T. *see* **Bratteli, Ola, 99k:46094a**
Koskas, Michel Complexités de suites de Toeplitz. (English and French summaries) [Complexities of Toeplitz sequences] **99a:68139**
Lamb, Jeroen S. W. (*with* Wijnands, Frank) From multi-site to on-site transfer matrix models for self-similar chains. (English summary) **99a:82019**
Lange, Ehler (*with* Peitgen, Heinz-Otto; Skordev, Gencho S.) Fractal patterns in Gaussian and Stirling number tables. (English summary) **99f:11023**
de Luca, Aldo Combinatorics of standard Sturmian words. (English summary) **99d:68207**
Mignosi, Filippo (*with* Restivo, Antonio; Salemi, Sergio) Periodicity and the golden ratio. (English summary) **99h:68140**
Parvaix, Bruno Propriétés d'invariance des mots sturmiens. (English and French summaries) [Invariance properties of Sturmian words] **99d:68208**
Peitgen, Heinz-Otto *see* **Lange, Ehler; et al., 99f:11023**
Queffélec, M. Transcendance des fractions continues de Thue-Morse. (French summary) [Transcendence of Thue-Morse continued fractions] **99j:11081**
Restivo, Antonio *see* **Mignosi, Filippo; et al., 99h:68140**
Salemi, Sergio *see* **Mignosi, Filippo; et al., 99h:68140**
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Vuillon, Laurent Combinatoire des motifs d'une suite sturmienne bidimensionnelle. (English and French summaries) [Combinatorics of the patterns of a two-dimensional Sturmian sequence] **99j:68112**
Wang, Ming-wei (*with* Shallit, Jeffrey) On minimal words with given subword complexity. (English summary) **99g:68159**
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Xie, Huimin ★ Grammatical complexity and one-dimensional dynamical systems. **99m:58084**

11B99 None of the above, but in this section

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11Cxx Polynomials and matrices

Items with secondary classifications in 11Cxx

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11C08 Polynomials [see also 13F20]

Amoroso, Francesco Upper bounds for the resultant and Diophantine applications. (English summary) **99g:11030**
Beauzamy, Bernard Extremal products in Bombieri's norm. (English summary) **99a:11028**
Bérczes, A. (*with* Hajdu, L.) On a problem of P. Turán concerning irreducible polynomials. **99f:11032**
Cassou-Noguès, Pierrette (*with* Couveignes, Jean-Marc) Factorisations explicites de $g(y) - h(z)$. [Explicit factorizations of $g(y) - h(z)$] **99m:11023**
Chinburg, Ted (*with* Savage, Carla D.; Wilf, Herbert S.) Combinatorial families that are exponentially far from being listable in Gray code sequence. (English summary) **99c:11024**
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Denis, Laurent Polynômes et puissances pures. [Polynomials and pure powers] **99g:11031**
Drmota, Michael Appendix: Kommentar zu der von Prof. Karl Prachar verfaßten Dissertation "Über die quadratische Abweichung ganzzahliger Polynome von der Null" (Univ. Wien 1947). [Appendix: commentary on K. Prachar's dissertation "On the quadratic deviation of integral polynomials from zero" [Österreich. Akad. Wiss. Math.-Natur. Kl. Sitzungsber. II **206** (1997), 15–42; MR 99h:11021a]] **99h:11021b**
Dubickas, Artūras Multiplicative dependence of quadratic polynomials. (English and Lithuanian summaries) **99k:11040**
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Kirnasovs'kiĭ, O. Yu. Properties of composite powers of the polynomial $x^2 - 2$ over arbitrary fields. (Ukrainian) **99d:11023**
Lauder, Alan G. B. Polynomials with odd orthogonal multiplicity. (English summary) **99h:11020**
Li, Xiao Pei A result on the Schur conjecture. (Chinese. English and Chinese summaries)
Maltby, Roy Root systems and the Erdős-Szekeres problem. **99b:11017**
Narkiewicz, Władysław Arithmetics of dynamical systems: a survey. (English summary) **99b:11018**
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— *see also* **Drmota, Michael, 99h:11021b**
Ruppert, Wolfgang M. Reducibility of polynomials $a_0(x) + a_1(x)y + a_2(x)y^2$ modulo p. (English summary) **99j:11025**
Savage, Carla D. *see* **Chinburg, Ted; et al., 99c:11024**
Schinzel, Andrzej The Mahler measure of polynomials. **99k:11041**
Spearman, Blair K. (*with* Williams, Kenneth S.) The factorization of $x^5 + x^a + n$. **99c:11025**
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Amoroso, Francesco A remark on a theorem of Szegő. (English summary) **99a:11118**
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Benoumhani, M. Sur une propriété des polynômes à racines réelles négatives. [A property of polynomials with negative real roots] **99c:12003**
Betts, C. Additive and subtractive irreducible monic decompositions in $\mathbf{Z}[x]$. (English and French summaries) **99f:11133**
Boyd, David W. Uniform approximation to Mahler's measure in several variables. (English summary) **99e:11134**
Brownawell, W. Dale A pure power product version of the Hilbert Nullstellensatz. **99m:13038**
Chapman, Scott T. (*with* Smith, William W.) Generators of maximal ideals in the ring of integer-valued polynomials. (English summary) **99i:13032**
Cilleruelo, Javier (*with* Jiménez-Urroz, Jorge) Divisors in a Dedekind domain. **99f:11128**
Dèbes, Pierre (*with* Zannier, Umberto) Universal Hilbert subsets. (English summary) **99f:11141**
Dubickas, Artūras (*with* Konyagin, Sergeĭ) On the number of polynomials of bounded measure. **99m:11122**
Evertse, Jan-Hendrik Lower bounds for resultants. II. (English summary) **99g:11056**
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Kroó, András (*with* Pritsker, I. E.) A sharp version of Mahler's inequality for products of polynomials. (English summary) **99m:30008**
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Rattan, A. (*with* Stewart, Colin B.) Goldbach's conjecture for $\mathbf{Z}[x]$. (English and French summaries) **99f:11132**
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Yudin, Vladimir Aleksandrovich Location of points on a torus, and extremal properties of polynomials. (Russian) **99k:42003**
Zannier, Umberto *see* **Dèbes, Pierre, 99f:11141**

11C20 Matrices, determinants [see also 15A36]

Ahuja, Mangho *see* **Palmer, Leonard; et al., 99b:11021**
Cao, Zhen Fu (*with* Grytczuk, Aleksander) Fermat's type equations in the set of 2×2 integral matrices. **99m:11025**
Chen, Xi Geng On Fermat's equation in the set of generalized Fibonacci matrices. (English summary) **99g:11032**
Grytczuk, Aleksander Note on Fermat's type equation in the set of $n \times n$ matrices. (English summary) **99f:11033**
— *see also* **Cao, Zhen Fu, 99m:11025**
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Le, Mao Hua (*with* Li, Ching) On Fermat's equation in integral 2×2 matrices. **99b:11020**
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Lindqvist, Peter (*with* Seip, Kristian) Note on some greatest common divisor matrices. (English summary) **99f:11034**
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Wei, Hong Zeng (*with* Zhang, Yi Bin) A formula for the number of solutions to a nonsingular symmetric matrix equation over a finite field of odd characteristic. (Chinese. English and Chinese summaries) **99m:11026**
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Hua, Jiuzhao Polynomial equations for matrices over finite fields. (English summary) **99m:11144**
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Wang, Bo Ying[1] On the singularity of LCM matrices. (English summary) **99d:15013**
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You, Hong Expressing a matrix over a finite field as the sum of two squares of invertible matrices. (Chinese. English and Chinese summaries) **99k:11187**
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11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

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11D04 Linear equations

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García-Sánchez, Pedro A. *see* **Rosales, J. C., 99c:11027**
Hamidoune, Y. O. On the Diophantine Frobenius problem. (English summary) **99m:11027**
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Sharkov, I. V. *see* **Kan, I. D.; et al., 99h:11022**
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Lev, Vsevolod F. On the number of solutions of a linear equation over finite sets. (English summary) **99k:11033**
Liu, Ming-Chit (*with* Wang, Tian Ze) A numerical bound for small prime solutions of some ternary linear equations. **99m:11115**
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11D09 Quadratic and bilinear equations

(Alex, Leo J.) *see* **Wang, Xiu Lin**
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11D25 Cubic and quartic equations

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11D41 Higher degree equations; Fermat's equation

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11D57 Multiplicative and norm form equations

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11D61 Exponential equations

Acu, Dumitru On some exponential Diophantine equations of the form $a^x - b^y c^z = \pm 1$. (English summary) **99i:11020**
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— On the number of the solutions of $x^2 - D = p^n$. (English and Chinese summaries) **99k:11048**

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Bugeaud, Yann On the greatest prime factor of $(ab+1)(bc+1)(ca+1)$. **99k:11141**
— Sur le plus grand facteur premier de $ax^m + by^n$. (English and French summaries) [On the greatest prime factor of $ax^m + by^n$] **99j:11033**
— Bornes effectives pour les solutions des équations en S-unités et des équations de Thue-Mahler. (English summary) [Effective bounds for the solutions of S-unit and Thue-Mahler equations] **99e:11102**
Cao, Zhen Fu The class numbers of some imaginary quadratic fields and a class of Diophantine equations. (Chinese. English and Chinese summaries) **99b:11118**
Chen, Shu *see* **Ji, Wan Hui, 99j:11010**
Chen, Xi Geng On Fermat's equation in the set of generalized Fibonacci matrices. (English summary) **99g:11032**
Dujella, Andrej (*with* Pethő, Attila) A generalization of a theorem of Baker and Davenport. **99g:11035**
Grytczuk, Aleksander Note on Fermat's type equation in the set of $n \times n$ matrices. (English summary) **99f:11033**
Ji, Wan Hui (*with* Chen, Shu) The exponent of an odd prime factor p in a power sum. (Chinese. English and Chinese summaries) **99j:11010**
Le, Mao Hua A class of exponential Diophantine equations related to ideal class groups of imaginary quadratic fields. (Chinese. English and Chinese summaries) **99b:11123**
Nakamula, Ken (*with* Pethő, Attila) Squares in binary recurrence sequences. **99g:11020**
Pethő, Attila *see* **Nakamula, Ken, 99g:11020** *and* **Dujella, Andrej, 99g:11035**
Szalay, László A Diophantine equation concerning linear recurrences. **99f:11018**

11D68 Rational numbers as sums of fractions

Ahmadi, M. H. (*with* Bleicher, M. N.) On the conjectures of Erdős and Straus, and Sierpiński on Egyptian fractions. (English summary) **99k:11049**
Anne, Premchand Egyptian fractions and the inheritance problem. **99i:11021**
Bleicher, M. N. *see* **Ahmadi, M. H., 99k:11049**
Cao, Zhen Fu (*with* Jing, Cheng Ming) On the number of solutions of Znám's problem. (Chinese. English and Chinese summaries) **99i:11022**
Jing, Cheng Ming *see* **Cao, Zhen Fu, 99i:11022**
Martin, Greg Dense Egyptian fractions. (English summary) **99m:11035**
Yokota, Hisashi Corrigendum: "On number of integers representable as a sum of unit fractions. II" [J. Number Theory **67** (1997), no. 2, 162–169; MR 98k:11031].

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Sun, Zhi Wei[1] On covering multiplicity. (English summary) **99h:11012**

11D72 Equations in many variables [see also 11P55]

Baragar, Arthur The exponent for the Markoff-Hurwitz equations. (English summary) **99e:11035**
Bukor, Jozsef (*with* Filakovszky, Péter; Tóth, János T.) On the Diophantine equation $x_1 x_2 \cdots x_n = h(n)(x_1 + x_2 + \cdots + x_n)$. (English summary) **99k:11050**
Filakovszky, Péter *see* **Bukor, Jozsef; et al., 99k:11050**

Ivanov, Mikhail Anisimovich The Diophantine equation $x_1^n + x_2^n + \cdots + x_{n_1}^n = y_1^n + y_1^n + \cdots + y_{n_2}^n$. (English summary) **99d:11033**
Klamkin, M. S. On simultaneous Diophantine equations. (English summary) **99c:11036**
Le, Mao Hua Some solutions of the Smarandache prime equation. (English summary)
Pathak, Birendra Kumar *see* **Prasad, R. N.**
Prasad, R. N. (*with* Pathak, Birendra Kumar) Diophantine equations of the Tarry-Escott type. (English summary)
Tóth, János T. *see* **Bukor, Jozsef; et al., 99k:11050**
Wooley, Trevor D. Linear spaces on cubic hypersurfaces, and pairs of homogeneous cubic equations. **99e:11036**
— An explicit version of Birch's theorem. **99e:11037**
— On the local solubility of Diophantine systems. (English summary) **99c:11037**

11D75 Diophantine inequalities [see also 11J25]

Bugeaud, Yann Sur le plus grand facteur premier de $ax^m + by^n$. (English and French summaries) [On the greatest prime factor of $ax^m + by^n$] **99j:11033**
Filaseta, Michael (*with* Konyagin, Sergeĭ) On a limit point associated with the *abc*-conjecture. **99b:11029**
Konyagin, Sergeĭ *see* **Filaseta, Michael, 99b:11029**
Saradha, N. (*with* Shorey, T. N.; Tijdeman, R.) Corrections to the paper: "On values of a polynomial at arithmetic progressions with equal products" [Acta Arith. **72** (1995), no. 1, 67–76; MR 96j:11041]. **99g:11043**
Shorey, T. N. *see* **Saradha, N.; et al., 99g:11043**
Tijdeman, R. *see* **Saradha, N.; et al., 99g:11043**
V'yalitsin, A. A. Investigation of systems of linear Diophantine inequalities by the methods of group theory. (Russian) **99c:11038**

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Baker, Alan Logarithmic forms and the *abc*-conjecture. **99e:11101**
Bambah, R. P. (*with* Dumir, V. C.; Hans-Gill, R. J.) Diophantine inequalities. (English summary) **99e:11095**
Dumir, V. C. *see* **Bambah, R. P.; et al., 99e:11095**
Granville, Andrew *ABC* allows us to count squarefrees. **99j:11104**
Hans-Gill, R. J. *see* **Bambah, R. P.; et al., 99e:11095**
Lettl, Günter (*with* Pethö, Attila; Voutier, Paul M.) Simple families of Thue inequalities. (English summary) **99h:11074**
Pethö, Attila *see* **Lettl, Günter; et al., 99h:11074**
Schlickewei, Hans Peter The subspace theorem and applications. (English summary) **99h:11075**
Voutier, Paul M. *see* **Lettl, Günter; et al., 99h:11074**

11D79 Congruences in many variables

Ayyad, Anwar The distribution of solutions of the congruence $x_1x_2x_3\cdots x_n \equiv c \pmod{p}$. (English summary) **99i:11023**
Koyama, Kenji *see* **Sekigawa, Hiroshi, 99i:11024**
Sekigawa, Hiroshi (*with* Koyama, Kenji) Nonexistence conditions of a solution for the congruence $x_1^k + \cdots + x_s^k \equiv N \pmod{p^n}$. (English summary) **99i:11024**
Wolfmann, Jacques Some systems of diagonal equations over finite fields. (English summary) **99c:11039**

Items with secondary classifications in 11D79

Agoh, Takashi (*with* Shoji, Toshiaki) Quadratic equations over finite fields and class numbers of real quadratic fields. (English summary) **99b:11120**
Cao, Zhen Fu (*with* Jing, Cheng Ming) On the number of solutions of Znám's problem. (Chinese. English and Chinese summaries) **99i:11022**
García-Sánchez, Pedro A. *see* **Rosales, J. C., 99c:11027**
Jing, Cheng Ming *see* **Cao, Zhen Fu, 99i:11022**
Kawada, Koichi (*with* Wooley, Trevor D.) Sums of fifth powers and related topics. **99i:11092**
Rosales, J. C. (*with* García-Sánchez, Pedro A.) Nonnegative elements of subgroups of $\mathbf{Z}^n$. (English summary) **99c:11027**
Shoji, Toshiaki *see* **Agoh, Takashi, 99b:11120**
Wooley, Trevor D. *see* **Kawada, Koichi, 99i:11092**

11D85 Representation problems [see also 11P55]

Bennett, Michael A. (*with* Dummigan, N. P.; Wooley, Trevor D.) The representation of integers by binary additive forms. (English summary) **99a:11041**
Dummigan, N. P. *see* **Bennett, Michael A.; et al., 99a:11041**
Leyendekkers, J. V. (*with* Rybak, J. M.; Shannon, Anthony G.) The characteristics of primes and other integers within the modular ring Z_4 and in class $\overline{1}$. (English summary) **99g:11044**
— (*with* Rybak, J. M.; Shannon, Anthony G.) The characteristics of primes and other integers within the modular ring Z_4 and in class $\overline{3}$. (English summary) **99g:11045**
Mit'kin, D. A. On a lower bound for the number of variables for the solvability of the Hilbert-Kamke system in 3-adic integers. (Russian) **99k:11051**
Rybak, J. M. *see* **Leyendekkers, J. V.; et al., 99g:11044** *and* **99g:11045**
Shannon, Anthony G. *see* **Leyendekkers, J. V.; et al., 99g:11044** *and* **99g:11045**
Warlimont, Richard On natural numbers as sums of consecutive hth powers. **99b:11030**
Wooley, Trevor D. *see* **Bennett, Michael A.; et al., 99a:11041**

Items with secondary classifications in 11D85

Cai, Tian Xin (*with* Jiao, Rong Zheng) On the Diophantine equation $xy + yz + zx = m$. II. (Chinese. Chinese summary)
Gogishvili, G. On the general unimprovable estimates of the singular series of positive quadratic forms. (English summary) **99k:11055**
Guy, Richard K. Nothing's new in number theory? **99k:11002**
Jiao, Rong Zheng *see* **Cai, Tian Xin**
Tashpulatov, B. T. Kloosterman-type formulas for quadratic forms of the type $x_1^2 + x_2^2 + 2(x_3^2 + x_4^2 + x_5^2) + 2 \cdot 4^k x_6^2$. (Russian. English and Uzbek summaries) **99g:11049**
— Formulas for the number of representations of the natural number of the quadratic form $x_1^2 + x_2^2 + 2(x_3^2 + x_4^2) + 2 \cdot 4^k(x_5^2 + x_6^2)$. (Russian. English and Uzbek summaries) **99g:11050**
— A formula for the number of representations of the natural number of the quadratic form $(2x_1 - 1)^2 + \cdots + (2x_{i-1} - 1)^2 + 4x_i^2 + \cdots 4x_{n-1}^2 + 4^{k+1}x_n^2$. (Russian. English and Uzbek summaries) **99g:11051**
— Kloosterman-type formulas for ternary quadratic forms of type $x_1^2 + 4x_2^2 + 4^{k+1}x_3^2$ and the absence of such forms of Liouville type. (Russian) **99g:11052**
Yokota, Hisashi Corrigendum: "On number of integers representable as a sum of unit fractions. II" [J. Number Theory **67** (1997), no. 2, 162–169; MR 98k:11031].

11D88 p-adic and power series fields

Godinho, Hemar On p-adic zeros of additive forms of even degree. (English summary) **99a:11042**
Terjanian, Guy Équations diophantiennes p-adiques (d'après J. Ax et S. Kochen). [p-adic Diophantine equations (after J. Ax and S. Kochen)] (*see* **99f:00041**)

Items with secondary classifications in 11D88

Koyama, Kenji *see* **Sekigawa, Hiroshi, 99i:11024**
Sekigawa, Hiroshi (*with* Koyama, Kenji) Nonexistence conditions of a solution for the congruence $x_1^k + \cdots + x_s^k \equiv N \pmod{p^n}$. (English summary) **99i:11024**
Wooley, Trevor D. On the local solubility of Diophantine systems. (English summary) **99c:11037**

11D99 None of the above, but in this section

Bombieri, Enrico (*with* Mueller, Julia) On a conjecture of Siegel. (English summary) **99d:11034**
Brindza, Béla (*with* Pintér, Ákos) On the Kronecker-Győry specialization. **99f:11048**
Dujella, Andrej The problem of Diophantus and Davenport. (English and Croatian summaries) **99c:11040**
— Some estimates of the number of Diophantine quadruples. (English summary) **99k:11052**
Dumitrescu, Constantin A. *see* **Seleacu, Vasile, (99a:11002)**
Le, Mao Hua On the Diophantine equation $S(n) = n$. (English summary)
Luca, Florian On the equation $\varphi(x^m - y^m) = x^n + y^n$. (English summary) **99e:11038**
Mueller, Julia *see* **Bombieri, Enrico, 99d:11034**
Passow, Eli On the solutions of $n! = m!r!$. (English summary) **99i:11025**
Peretti, Aldo Application of the Laplace transform to the solution of Diophantine equations. **99e:11039**
Pintér, Ákos *see* **Brindza, Béla, 99f:11048**
Seleacu, Vasile (*with* Dumitrescu, Constantin A.) The equations $m \cdot S(m) = n \cdot S(n)$ and $m \cdot S(n) = n \cdot S(m)$ have infinitely many solutions. (*see* **99a:11002**)
Udrea, Gheorghe The Diophantine equations $x^2 - k = 2 \cdot T_n((b^2 \pm 2)/2)$. **99k:11053**

Items with secondary classifications in 11D99

Browkin, Jerzy (*with* Filaseta, Michael; Greaves, G. R. H.; Schinzel, Andrzej) Squarefree values of polynomials and the *abc*-conjecture. **99d:11101**
Filaseta, Michael *see* **Browkin, Jerzy; et al., 99d:11101**
Greaves, G. R. H. *see* **Browkin, Jerzy; et al., 99d:11101**
Haluška, Ján On the numbers 256/243, 25/24, 16/15. (English summary) **99j:00004**
Schinzel, Andrzej *see* **Browkin, Jerzy; et al., 99d:11101**

11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

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Items listed otherwise than by author

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11E04 Quadratic forms over general fields

Corbas, B. (*with* Williams, G. D.) Matrix representatives for three-dimensional bilinear forms over finite fields. (English summary) **99h:11038**
Eskin, Alex (*with* Margulis, Grigorii A.; Mozes, Shahar) Upper bounds and asymptotics in a quantitative version of the Oppenheim conjecture. **99a:11043**
Hoffmann, Detlev W. Similarity of quadratic forms and half-neighbors. **99g:11046**
— Splitting patterns and invariants of quadratic forms. (English summary) **99g:11047**
Hurrelbrink, Jurgen (*with* Rehmann, Ulf) Splitting patterns and trace forms. (English summary) **99d:11035**
Izhboldin, Oleg T. On the isotropy of quadratic forms over the function field of a quadric. (Russian. Russian summary) **99e:11040**
— Motivic equivalence of quadratic forms. (English summary) **99m:11036**
Margulis, Grigorii A. *see* **Eskin, Alex; et al., 99a:11043**
Mozes, Shahar *see* **Eskin, Alex; et al., 99a:11043**
N'Kanza, M. Sur les p-corps. (English and French summaries) [On p-fields] **99m:11037**
Rehmann, Ulf *see* **Hurrelbrink, Jurgen, 99d:11035**
Williams, G. D. *see* **Corbas, B., 99h:11038**

Items with secondary classifications in 11E04

(Arf, Cahit) *see* **Ikeda, Masatoshi G., 99f:11001**
Hoffmann, Detlev W. On Elman and Lam's filtration of the u-invariant. **99d:11037**
Ikeda, Masatoshi G. Cahit Arf's contribution to algebraic number theory and related fields. **99f:11001**

Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) On the group $H^3(F(\varphi, D)/F)$. (English summary) **99b:11038**
Kahn, Bruno Formes quadratiques de hauteur et de degré 2. (English summary) [Quadratic forms of height and degree 2] **99h:11042**
Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 99b:11038**
Mallat, Stéphane Applied mathematics meets signal processing. (*see* **99e:00023**)

11E08 Quadratic forms over local rings and fields

Hisasue, Masaki *see* **Katsurada, Hidenori, 99c:11041**
Jukl, Marek Canonical matrices of λ-bilinear forms on modules over a certain local ring. (English summary) **99e:11041**
Katsurada, Hidenori (*with* Hisasue, Masaki) A recursion formula of local densities with congruence conditions. (English and Japanese summaries) **99c:11041**
Yang, Tonghai An explicit formula for local densities of quadratic forms. **99j:11034**

Items with secondary classifications in 11E08

Carpenter, Jenna P. On the preservation of root numbers and the behavior of Weil characters under reciprocity equivalence. (English summary) **99a:11044**
Chan, Wai-Kiu (*with* Estes, Dennis R.; Jöchner, M.) Representations of codimension ≥ 3 by definite quadratic forms. (English summary) **99e:11042**
— Spinor genera under $\mathbf{Z}_p$-extensions. (English summary) **99k:11054**
Estes, Dennis R. *see* **Chan, Wai-Kiu; et al., 99e:11042**
Hsia, J. S. (*with* Shao, Y. Y.; Xu, Fei[1]) Representations of indefinite quadratic forms. **99h:11039**
Jöchner, M. *see* **Chan, Wai-Kiu; et al., 99e:11042**
Kozioł, Krzysztof (*with* Kula, Mieczysław) Witt rings of infinite algebraic extensions of global fields. (English summary) **99m:11040**
Kula, Mieczysław *see* **Kozioł, Krzysztof, 99m:11040**
Shao, Y. Y. *see* **Hsia, J. S.; et al., 99h:11039**
Szymiczek, Kazimierz Hilbert's Eleventh Problem (the theory of quadratic forms over algebraic number fields). (Polish. English summary) **99e:11043**
Xu, Fei[1] *see* **Hsia, J. S.; et al., 99h:11039**

11E10 Forms over real fields

Hornix, E. A. M. Relations between invariants of formally real fields. (English summary) **99f:11049**
Khimshiashvili, G. N. Quadratic forms and polynomial equations over real closed fields. (Russian. English and Georgian summaries)

Items with secondary classifications in 11E10

Flicker, Yuval Z. (*with* Scheiderer, Claus; Sujatha, R.) Grothendieck's theorem on non-abelian H^2 and local-global principles. (English summary) **99a:11129**
Scheiderer, Claus *see* **Flicker, Yuval Z.; et al., 99a:11129**
Sujatha, R. *see* **Flicker, Yuval Z.; et al., 99a:11129**

11E12 Quadratic forms over global rings and fields

Berhuy, Grégory Characterization of Hermitian trace forms. **99m:11038**
Carpenter, Jenna P. On the preservation of root numbers and the behavior of Weil characters under reciprocity equivalence. (English summary) **99a:11044**
Chan, Wai-Kiu (*with* Estes, Dennis R.; Jöchner, M.) Representations of codimension ≥ 3 by definite quadratic forms. (English summary) **99e:11042**
— Spinor genera under $\mathbf{Z}_p$-extensions. (English summary) **99k:11054**
Czogała, Alfred Generators of the Witt groups of algebraic integers. **99m:11039**
Earnest, A. G. (*with* Khosravani, Azar) Universal positive quaternary quadratic lattices over totally real number fields. **99a:11045**
Estes, Dennis R. *see* **Chan, Wai-Kiu; et al., 99e:11042**
Gogishvili, G. On the general unimprovable estimates of the singular series of positive quadratic forms. (English summary) **99k:11055**
von Höhne, Hans-Joachim (*with* de la Peña, José Antonio) Edge reduction for weakly non-negative quadratic forms. (English summary) **99b:11031**
— (*with* de la Peña, José Antonio) Isotropic vectors of non-negative integral quadratic forms. (English summary) **99j:11035**
Hsia, J. S. (*with* Shao, Y. Y.; Xu, Fei[1]) Representations of indefinite quadratic forms. **99h:11039**
Jagy, William C. (*with* Kaplansky, Irving; Schiemann, Alexander) There are 913 regular ternary forms. **99a:11046**
Jöchner, M. *see* **Chan, Wai-Kiu; et al., 99e:11042**
Kaplansky, Irving *see* **Jagy, William C.; et al., 99a:11046**
Khosravani, Azar *see* **Earnest, A. G., 99a:11045**
Kozioł, Krzysztof (*with* Kula, Mieczysław) Witt rings of infinite algebraic extensions of global fields. (English summary) **99m:11040**
Kula, Mieczysław *see* **Kozioł, Krzysztof, 99m:11040**
de la Peña, José Antonio *see* **von Höhne, Hans-Joachim, 99b:11031** *and* **99j:11035**
Schiemann, Alexander *see* **Jagy, William C.; et al., 99a:11046**
Shao, Y. Y. *see* **Hsia, J. S.; et al., 99h:11039**
Szymiczek, Kazimierz Hilbert's Eleventh Problem (the theory of quadratic forms over algebraic number fields). (Polish. English summary) **99e:11043**
— 2-ranks of class groups of Witt equivalent number fields. **99m:11041**
Xu, Fei[1] *see* **Hsia, J. S.; et al., 99h:11039**

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Dräxler, Peter (*with* Golovashchuk, N. S.; Ovsienko, S.; de la Peña, José Antonio) Coordinates of maximal roots of weakly non-negative unit forms. **99m:16017**
Golovashchuk, N. S. *see* **Dräxler, Peter; et al., 99m:16017**
Ibukiyama, Tomoyoshi (*with* Saito, Hiroshi[1]) On the "simple" zeta-functions. (Japanese. Japanese summary) **99e:11120**
Kim, Byeong Moon (*with* Kim, Myung-Hwan[1]; Raghavan, Srinivasacharya) 2-universal positive definite integral quinary diagonal quadratic forms. (English summary) **99c:11042**
Kim, Myung-Hwan[1] *see* **Kim, Byeong Moon; et al., 99c:11042**
Kogan, L. A. Representation of numbers by quadratic forms. (Russian) **99j:11037**
Ovsienko, S. *see* **Dräxler, Peter; et al., 99m:16017**
Palfrey, Thomas C. Density theorems for reciprocity equivalences. (English summary) **99m:11051**
de la Peña, José Antonio *see* **Dräxler, Peter; et al., 99m:16017**
Plesken, Wilhelm Finite rational matrix groups: a survey. (English summary) **99h:20083**
Raghavan, Srinivasacharya *see* **Kim, Byeong Moon; et al., 99c:11042**
Saito, Hiroshi[1] *see* **Ibukiyama, Tomoyoshi, 99e:11120**
Scharlau, Rudolf (*with* Tiep, Pham Huu) Symplectic group lattices. (English summary) **99k:20010**
Tiep, Pham Huu *see* **Scharlau, Rudolf, 99k:20010**

11E16 General binary quadratic forms

Levesque, Claude On semi-reduced quadratic forms, continued fractions and class number. **99b:11032**

Items with secondary classifications in 11E16

Micali, Artibano Formes quadratiques de Hardy-Weinberg et algèbres de Clifford. II. (English and French summaries) [Hardy-Weinberg quadratic forms and Clifford algebras. II] **99f:17039**
Papageorgiou, Yannis Y. SL_2, the cubic and the quartic. (English and French summaries) **99f:20071**
Sidorov, Nikita (*with* Vershik, Anatoliĭ Moiseevich) Bijective arithmetic codings of hyperbolic automorphisms of the 2-torus, and binary quadratic forms. (English summary) **99g:58095**
Vershik, Anatoliĭ Moiseevich *see* **Sidorov, Nikita, 99g:58095**

11E20 General ternary and quaternary quadratic forms; forms of more than two variables

Cleven, Johannes Norms and determinants of quaternionic line bundles. (English summary) **99m:11042**
Kim, Byeong Moon (*with* Kim, Myung-Hwan[1]; Raghavan, Srinivasacharya) 2-universal positive definite integral quinary diagonal quadratic forms. (English summary) **99c:11042**
Kim, Myung-Hwan[1] *see* **Kim, Byeong Moon; et al., 99c:11042**
Lomadze, G. Summation of singular series corresponding to representations of numbers by some quadratic forms in twelve variables. (English summary) **99g:11048**
Martini, Frank ★ Das Markovspektrum indefiniter quadratischer Formen. (German) [The Markov spectrum of indefinite quadratic forms] **99e:11044**
Raghavan, Srinivasacharya *see* **Kim, Byeong Moon; et al., 99c:11042**

Items with secondary classifications in 11E20

Gogishvili, G. On the general unimprovable estimates of the singular series of positive quadratic forms. (English summary) **99k:11055**
Jagy, William C. (*with* Kaplansky, Irving; Schiemann, Alexander) There are 913 regular ternary forms. **99a:11046**
Kaplansky, Irving *see* **Jagy, William C.; et al., 99a:11046**
Morishita, Masanori (*with* Watanabe, Takao) On S-Hardy-Littlewood homogeneous spaces. (English summary) **99g:11082**
Ono, Ken (*with* Soundararajan, K.) Ramanujan's ternary quadratic form. **99b:11036**
Schiemann, Alexander *see* **Jagy, William C.; et al., 99a:11046**
Soundararajan, K. *see* **Ono, Ken, 99b:11036**
Tashpulatov, B. T. Kloosterman-type formulas for quadratic forms of the type $x_1^2 + x_2^2 + 2(x_3^2 + x_4^2 + x_5^2) + 2 \cdot 4^k x_6^2$. (Russian. English and Uzbek summaries) **99g:11049**
— Formulas for the number of representations of the natural number of the quadratic form $x_1^2 + x_2^2 + 2(x_3^2 + x_4^2) + 2 \cdot 4^k (x_5^2 + x_6^2)$. (Russian. English and Uzbek summaries) **99g:11050**
— A formula for the number of representations of the natural number of the quadratic form $(2x_1 - 1)^2 + \cdots + (2x_{t-1} - 1)^2 + 4x_t^2 + \cdots 4x_{n-1}^2 + 4^{k+1} x_n^2$. (Russian. English and Uzbek summaries) **99g:11051**
— Kloosterman-type formulas for ternary quadratic forms of type $x_1^2 + 4x_2^2 + 4^{k+1} x_3^2$ and the absence of such forms of Liouville type. (Russian) **99g:11052**
Watanabe, Takao *see* **Morishita, Masanori, 99g:11082**

11E25 Sums of squares and representations by other particular quadratic forms

Clarke, J. H. (*with* Shannon, Anthony G.) A note on sums of squares of integers.
Connors, R. D. (*with* Keating, Jonathan P.) Degeneracy moments for the square billiard. (English summary) **99m:11043**
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— On the representation of numbers by the direct sums of some binary quadratic forms. (English summary) **99b:11033**
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— Formulas for the number of representations of the natural number of the quadratic form $x_1^2 + x_2^2 + 2(x_3^2 + x_4^2) + 2 \cdot 4^k (x_5^2 + x_6^2)$. (Russian. English and Uzbek summaries) **99g:11050**

— A formula for the number of representations of the natural number of the quadratic form $(2x_1 - 1)^2 + \cdots + (2x_{r-1} - 1)^2 + 4x_r^2 + \cdots 4x_{n-1}^2 + 4^{k+1}x_n^2$. (Russian. English and Uzbek summaries) **99g:11051**

— Kloosterman-type formulas for ternary quadratic forms of type $x_1^2 + 4x_2^2 + 4^{k+1}x_3^2$ and the absence of such forms of Liouville type. (Russian) **99g:11052**

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Varouchas, Jean Démonstration élémentaire d'une identité de Lorenz. (English summary) [Elementary proof of a Lorenz identity] **99m:11045**

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Chan, Wai-Kiu (*with* Estes, Dennis R.; Jöchner, M.) Representations of codimension ≥ 3 by definite quadratic forms. (English summary) **99e:11042**

Earnest, A. G. (*with* Khosravani, Azar) Universal positive quaternary quadratic lattices over totally real number fields. **99a:11045**

Elkies, Noam D. (*with* Gross, Benedict H.) Embeddings into the integral octonions. **99g:11138**

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Kogan, L. A. Representation of numbers by quadratic forms. (Russian) **99j:11037**

Li, Weiping[1] Singular connections and Riemann theta functions. (English summary) **99j:58035**

Lomadze, G. Summation of singular series corresponding to representations of numbers by some quadratic forms in twelve variables. (English summary) **99g:11048**

Sun, Zhi-Hong On the theory of cubic residues and nonresidues. **99c:11005**

11E39 Bilinear and Hermitian forms

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Han, Shian Classification of positive definite Hermitian forms over $\mathbf{Q}(\sqrt{-43})$. (English and Chinese summaries) **99k:11057**

Hatzaras, Y. Hermitian and quadratic forms over crossed-product orders. **99h:11040**

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Jukl, Marek Canonical matrices of λ-bilinear forms on modules over a certain local ring. (English summary) **99e:11041**

Turaev, Vladimir G. Reciprocity for Gauss sums on finite abelian groups. **99f:11103**

11E41 Class numbers of quadratic and Hermitian forms

Chamizo, Fernando (*with* Iwaniec, Henryk) On the Gauss mean-value formula for class number. (English summary) **99h:11041**

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Nakagawa, Jin On the relations among the class numbers of binary cubic forms. **99j:11036**

Schiemann, Alexander Classification of Hermitian forms with the neighbour method. (English summary) **99g:11053**

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McKee, James A note on the number of divisors of quadratic polynomials. **99d:11106**

11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

Cartier, Pierre Théorie analytique des formes quadratiques. I. Suites quasi-périodiques. [Analytic theory of quadratic forms. I. Quasiperiodic sequences] (*see* **99f:00041**)

Ibukiyama, Tomoyoshi On Shintani's zeta functions of ternary zero forms (third approach). **99c:11043**

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Lomadze, G. Summation of singular series corresponding to representations of numbers by some quadratic forms in twelve variables. (English summary) **99g:11048**

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11E57 Classical groups [see also 14Lxx, 20Gxx]

Ikai, Hisatoshi Some prehomogeneous representations defined by cubic forms. (Japanese) **99g:11054**

Margulis, Grigorii A. Oppenheim conjecture. **99e:11046**

Merlier, Thérèse ★ Exercices corrigés sur les formes quadratiques et groupes classiques. (French. French summary) [Quadratic forms and classical groups: exercises with answers] **99m:11048**

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— (*with* Parimala, R.) Classical groups and the Hasse principle. **99g:11055**

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11E72 Galois cohomology of linear algebraic groups [see also 20G10]

Bayer-Fluckiger, Eva Local-global principles and linear algebraic groups. **99d:11036**

— (*with* Parimala, R.) Classical groups and the Hasse principle. **99g:11055**

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11E76 Forms of degree higher than two

Evertse, Jan-Hendrik Lower bounds for resultants. II. (English summary) **99g:11056**

Sładek, Andrzej (*with* Wesołowski, Adam) Clifford-Littlewood-Eckmann groups as orthogonal groups of forms of higher degree. (English summary) **99k:11059**
Summerer, Leonhard Cubic forms as sum of cubes of linear forms. (English summary) **99j:11038**
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11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

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— (*with* Karpenko, Nikita A.) Isotropy of six-dimensional quadratic forms over function fields of quadrics. (English summary) **99j:11039**
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Izhboldin, Oleg T. Motivic equivalence of quadratic forms. (English summary) **99m:11036**
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11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Loos, Ottmar Discriminant algebras and adjoints of quadratic forms. **99e:11049**

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(Keller, Hans Arwed) *see* **Orthogonal geometry in infinite-dimensional vector spaces, 99e:51001**
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11E95 p-adic theory

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11E99 None of the above, but in this section

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11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

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Automorphic Forms and Number Theory ★ Hokei keishiki to seisū ron. [Automorphic forms and number theory] **99m:11002**

11F03 Modular and automorphic functions

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Hayashi, Yoshiki Singuläre Moduln an den Heegner-Punkten für allgemeine Diskriminanten. (English summary) [Singular moduli at the Heegner points for general discriminants] **99h:11054**
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Hutchinson, Tim A conjectural extension of the Gross-Zagier formula on singular moduli. (English summary) **99j:11131**
Kim, Chang Heon (*with* Koo, Ja Kyung) Arithmetic of the modular function $j_{1,4}$. (English summary) **99b:11042**
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(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 99f:11024**
Shiga, Hironori On the arithmetic properties of the modular function induced from the hypergeometric differential equation of type (3, 6). (English summary) **99f:32033**
Waldschmidt, Michel Sur la nature arithmétique des valeurs de fonctions modulaires. (French summary) [On the arithmetical nature of values of modular functions] **99g:11089**
Yui, Noriko (*with* Zagier, Don) On the singular values of Weber modular functions. (English summary) **99i:11046**
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11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

Akbaş, M. (*with* Başkan, T.) Suborbital graphs for the normalizer of $\Gamma_0(N)$. (English and Turkish summaries) **99a:11050**
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Bizim, O. The extended modular group. (English and Turkish summaries) **99g:11057**
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Hervé, Michel Travaux de Köcher sur les formes modulaires. [Works of Köcher on modular groups] (*see* **99f:00035**)
James, Donald G. Conjugacy classes of $SU(h, \mathcal{O}_S)$ in $SL(2, \mathcal{O}_S)$. (English summary) **99d:11038**
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— Some arithmetic Fuchsian groups with signature $(0; e_1, e_2, e_3, e_4)$. (English summary) **99a:11051**

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Baer, Christine (*with* Rosenberger, Gerhard) The equation $ax^2 + by^2 + cz^2 = dxyz$ over quadratic imaginary fields. (English summary) **99c:11028**

Grunewald, Fritz (*with* Platonov, Vladimir Petrovich) On finite extensions of arithmetic groups. (English and French summaries) **99a:20045**
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Ishida, Nobuhiko Generators and equations for modular function fields of principal congruence subgroups. **99j:11040**
Işık, Ahmet Automorphic functions on the Hecke groups $\Gamma(\sqrt{m})$. (English summary)
— (*with* Kaplan, Abdullah) Fibonacci sequences in Hecke groups $\Gamma(\lambda_m)$. (English summary)
Ji, Shujuan Analogs of $\Delta(z)$ for triangular Shimura curves. (English summary) **99c:11044**
Jiang, Dihua (*with* Piatetski-Shapiro, I. I.) Arithmeticity of discrete subgroups and automorphic forms. **99k:11060**
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Mushtaq, Qaiser (*with* Aslam, Muhammad[1]) Group generated by two elements of orders two and six acting on **R** and $\mathbf{Q}(\sqrt{n})$. (English summary) **99a:20049**
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Vulakh, L. Ya. The Markov spectra for triangle groups. (English summary) **99e:11093**

11F11 Modular forms, one variable

Bateman, Paul T. (*with* Knopp, Marvin I.) Some new old-fashioned modular identities. (English summary) **99e:11051**
Bykovskiĭ, V. A. (*with* Vinogradov, A. I.) An estimate for Waldspurger series at a critical point. (Russian. Russian summary) (*see* **99k:11003**)
Chan, Heng Huat (*with* Lang, Mong Lung) Ramanujan's modular equations and Atkin-Lehner involutions. (English summary) **99f:11053**
— On Ramanujan's cubic transformation formula for ${}_2F_1(\frac{1}{3}, \frac{2}{3}; 1; z)$. (English summary) **99f:11054**
Duke, William Bounds for arithmetic multiplicities. (English summary) **99j:11042**
Godement, Roger Travaux de Hecke. III. [Works of Hecke. III] (*see* **99f:00034**)
— Travaux de Hecke. IV. [Works of Hecke. IV] (*see* **99f:00034**)
Gouvêa, Fernando Q. Non-ordinary primes: a story. (English summary) **99a:11052**
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Işık, Ahmet On Eisenstein series and theta functions. (English summary) **99g:11058**
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Morimoto, Shuma (*with* Nishida, Goro) Elliptic cohomology of classifying spaces of cyclic groups and higher level modular forms. **99f:11055**
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Rebinguet, Nadja Sur les zéros des séries d'Eisenstein dans le demi-plan de Drinfeld. (English and French summaries) [Zeroes of Eisenstein series in the Drinfel'd upper half-plane] **99h:11045**
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Voskresenskaya, G. V. Modular forms and representations of dihedral groups. (Russian) **99e:11052**
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11F12 Automorphic forms, one variable

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11F20 Dedekind eta function, Dedekind sums

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— (*with* Park, Joong Soo) A study of Ramanujan $\tau(n)$ number and Dedekind eta-function. (English summary)
— *see also* **Park, Hwasin**, **99c:11046** *and* **Park, Joong Soo**, **99i:11028**
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11F25 Hecke-Petersson operators, differential operators (one variable)

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11F27 Theta series; Weil representation

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11F30 Fourier coefficients of automorphic forms

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Heim, B. E. Über Poincaré Reihen und Restriktionsabbildungen. [On Poincaré series and restriction mappings] **99k:11068**
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Ono, Ken (*with* Skinner, Christopher) Fourier coefficients of half-integral weight modular forms modulo l. **99f:11059a**
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11F32 Modular correspondences, etc.

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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

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11F46 Siegel modular groups and their modular and automorphic forms

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11F60 Hecke-Petersson operators, differential operators (several variables)

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Choie, YoungJu (*with* Eholzer, Wolfgang) Rankin-Cohen operators for Jacobi and Siegel forms. (English summary) **99b:11050**
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Finis, Tobias Some computational results on Hecke eigenvalues of modular forms on a unitary group. (English summary) **99g:11063**
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11F66 Dirichlet series and functional equations in connection with modular forms

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11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

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Mahnkopf, Joachim Modular symbols and values of L-functions on GL_3. (English summary) **99d:11052**
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Schulze-Pillot, Rainer *see* **Böcherer, Siegfried**, **99j:11051**
Sczech, Robert Eisenstein cocycles for arithmetic groups and values of zeta functions. **99a:11061**
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Top, Jaap *see* **van Geemen, Bert; et al.**, **99a:11059**
Vatsal, V. Congruences for the special values of modular L-functions. (English and French summaries) **99i:11036**
Verberkmoes, Alain *see* **van Geemen, Bert; et al.**, **99a:11059**
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Wang, Xueli (*with* Pei, Ding Yi) How to decrease the levels of modular integrals. (English summary) **99m:11058**

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Bruinier, J. H. On a theorem of Vignéras. **99k:11069**
Buecker, Karsten On the control theorem for the symplectic group. (English summary) **99m:11056**
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(Edixhoven, Bas) *see* **Bertolini, Massimo**, **99f:11079**
Fukuhara, Shinji The space of period polynomials. **99i:11027**
Goncharov, A. B. The double logarithm and Manin's complex for modular curves. **99e:11086**
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Ikeda, Tamotsu Gamma factors of triple L-functions (holomorphic case). (Japanese) **99g:11065**
Jiang, Dihua G_2-periods and residual representations. **99e:11062**
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Mizumoto, Shin-ichiro Nearly holomorphic Eisenstein liftings. (Japanese) **99d:11044**
Ono, Ken (*with* Soundararajan, K.) Ramanujan's ternary quadratic form. **99b:11036**
Perrin-Riou, Bernadette Zéros triviaux des fonctions L p-adiques, un cas particulier. (English and French summaries) [A particular case of the trivial zeros of p-adic L-functions] **99k:11097**
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Tilouine, Jacques Deformations of Siegel-Hilbert Hecke eigensystems and their Galois representations. **99a:11067**
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Vatsal, V. Rank-one twists of a certain elliptic curve. **99i:11050**

11F70 Representation-theoretic methods; automorphic representations over local and global fields

Banks, William D. A corollary to Bernstein's theorem and Whittaker functionals on the metaplectic group. **99m:11059**
Bump, Daniel (*with* Ginzburg, David) The adjoint L-function of GL(4). (English summary) **99h:11051**
Cogdell, James W. (*with* Piatetski-Shapiro, I. I.) Stability of gamma factors for $SO(2n+1)$. **99d:11053**
Everling, Ulrich An example of Fourier transforms of orbital integrals and their endoscopic transfer. (English summary) **99e:11061**
Flicker, Yuval Z. Report on the fundamental lemma for GL(4) and GSp(2). **99g:11067**
— Cyclic automorphic forms on a unitary group. **99c:11057**
— Matching of orbital integrals on GL(4) and GSp(2). (English summary) **99g:11068**
Furusawa, Masaaki (*with* Shalika, Joseph A.) The fundamental lemma for the Bessel and Novodvorsky subgroups of GSp(4). (English and French summaries) **99k:11075**
Ginzburg, David (*with* Rallis, Stephen; Soudry, David) A tower of theta correspondences for G_2. **99c:11059**
— (*with* Rallis, Stephen; Soudry, David) On the automorphic theta representation for simply laced groups. (English summary) **99c:11058**
— *see also* **Bump, Daniel**, **99h:11051**
Godement, Roger Introduction à la théorie de Langlands. [Introduction to the theory of Langlands] (*see* **99f:00042**)
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— (*with* Ye, Yangbo) Germs of Kloosterman integrals for GL(3). (English summary) **99j:11053**
Jiang, Dihua (*with* Rallis, Stephen) Fourier coefficients of Eisenstein series of the exceptional group of type G_2. (English summary) **99d:11054**
— The first term identities for Eisenstein series. **99h:11052**
— G_2-periods and residual representations. **99e:11062**
Kim, Hyun Kwang (*with* Lee, Min Ho[1]) Generalized Eichler-Shimura isomorphisms for compact locally symmetric spaces. **99m:11060**
Lapid, Erez M. (*with* Rogawski, Jonathan) On twists of cuspidal representations of GL(2). (English summary) **99d:11055**
Lee, Min Ho[1] *see* **Kim, Hyun Kwang**, **99m:11060**
Lemaire, Bertrand Algèbres de Hecke et corps locaux proches (une preuve de la conjecture de Howe pour $GL(N)$ en caractéristique > 0). [Hecke algebras and close local fields (a proof of the Howe conjecture for $GL(N)$ in characteristic > 0)] **99f:11064**
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Piatetski-Shapiro, I. I. *see* **Cogdell, James W.**, **99d:11053**
Prasad, Dipendra A brief survey on the theta correspondence. **99e:11063**
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Roberts, Brooks Tempered representations and the theta correspondence. (English summary) **99j:11054**
— The non-Archimedean theta correspondence for GSp(2) and GO(4). (English summary) **99d:11056**
Rogawski, Jonathan *see* **Lapid, Erez M.**, **99d:11055**
Rohlfs, Jürgen (*with* Speh, Birgit) A comparison of geometric theta functions for forms of orthogonal groups. (English summary) **99c:11061**
Saito, Hiroshi[1] Base change for $GL(N)$—a historical survey. (Japanese) (*see* **99a:11005**)
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Berndt, Rolf (*with* Schmidt, Ralf) ★ Elements of the representation theory of the Jacobi group. (English summary) **99i:11030**
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Mao, Zhengyu (*with* Rallis, Stephen) A trace formula for dual pairs. **99a:22032**
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11F72 Spectral theory; Selberg trace formula

Arthur, James Towards a stable trace formula. (English summary) **99j:11055**
Balslev, Erik (*with* Venkov, A.) The Weyl law for subgroups of the modular group. **99g:11069**
Bogomol'nyĭ, E. B. (*with* Georgeot, B.; Giannoni, M.-J.; Schmit, C.) Arithmetical chaos. (English summary) **99c:11062**
Bruggeman, R. W. (*with* Miatello, R. J.) Sum formula for SL_2 over a number field and Selberg type estimate for exceptional eigenvalues. **99m:11061**
Catto, Sultan (*with* Huntley, Jonathan; Jorgenson, Jay; Tepper, David) On an analogue of Selberg's eigenvalue conjecture for $SL_3(\mathbf{Z})$. (English summary) **99b:11055**
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Giannoni, M.-J. *see* **Bogomol'nyĭ, E. B.; et al., 99c:11062**
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Helmke, Volker Die Selbergsche Spurformel für Quaternionengruppen. [The Selberg trace formula for quaternion groups] **99a:11062**
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Brooks, Robert Wolfe (*with* Gornet, Ruth; Gustafson, William H.) Mutually isospectral Riemann surfaces. **99k:58184**
— Platonic surfaces. (English summary) **99k:58185**
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Deitmar, Anton On the index of Dirac operators on arithmetic quotients. (English summary) **99c:58148**
— Erratum to: "Geometric zeta functions on p-adic groups" [Math. Japon. **47** (1998), no. 1, 1–17; MR 98m:11130]. **99f:11153**
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Huber, Heinz Ein Gitterpunktproblem in der hyperbolischen Ebene. [A lattice point problem in the hyperbolic plane] **99m:11113**
Huntley, Jonathan (*with* Jorgenson, Jay; Lundelius, Rolf) On the asymptotic behavior of counting functions associated to degenerating hyperbolic Riemann surfaces. (English summary) **99e:58186**
Jacquet, Hervé (*with* Lapid, Erez M.; Rogawski, Jonathan) Periods of automorphic forms. **99c:11056**
Jorgenson, Jay (*with* Lundelius, Rolf) Convergence of the normalized spectral counting function on degenerating hyperbolic Riemann surfaces of finite volume. (English summary) **99e:58185**
— *see also* **Huntley, Jonathan; et al., 99e:58186**
Kelly-Lyth, D. Uniform lattice point estimates for co-finite Fuchsian groups. **99m:11114**
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— *see also* **Jacquet, Hervé; et al., 99c:11056**
Lundelius, Rolf *see* **Jorgenson, Jay, 99e:58185** *and* **Huntley, Jonathan; et al., 99e:58186**
Mao, Zhengyu (*with* Rallis, Stephen) A trace formula for dual pairs. **99a:22032**
Motohashi, Yoichi ★ Spectral theory of the Riemann zeta-function. (English summary) **99f:11109**
— The mean square of Dedekind zeta-functions of quadratic number fields. (English summary) **99g:11136**
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Rogawski, Jonathan *see* **Jacquet, Hervé; et al., 99c:11056** *and* **Lapid, Erez M., 99d:11055**
Rohlfs, Jürgen (*with* Speh, Birgit) A comparison of geometric theta functions for forms of orthogonal groups. (English summary) **99c:11061**
Romanov, R. V. (*with* Rudin, G. E.) Scattering on p-adic graphs. (English summary) **99d:11129**
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11F75 Cohomology of arithmetic groups

Bunke, Ulrich (*with* Olbrich, Martin) Resolutions of distribution globalizations of Harish-Chandra modules and cohomology. **99j:11056**
Franke, Jens (*with* Schwermer, Joachim) A decomposition of spaces of automorphic forms, and the Eisenstein cohomology of arithmetic groups. **99k:11077**
Goresky, Mark (*with* Kottwitz, Robert E.; MacPherson, Robert D.) Discrete series characters and the Lefschetz formula for Hecke operators. **99e:11064a**
— (*with* Kottwitz, Robert E.; MacPherson, Robert D.) Correction to: "Discrete series characters and the Lefschetz formula for Hecke operators". **99e:11064b**
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Kühnlein, Stefan Torsion classes in cohomology and Galois representations. (English summary) **99e:11065**
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Ash, Avner (*with* Manjrekar, Rajesh) Galois representations and Hecke operators associated with the mod-p cohomology of $GL(m(p-1), \mathbf{Z})$. **99e:11066**
Buecker, Karsten On the control theorem for the symplectic group. (English summary) **99m:11056**
Carayol, Henri Limites dégénérées de séries discrètes, formes automorphes et variétés de Griffiths-Schmid: le cas du groupe U(2, 1). (English summary) [Degenerate limits of discrete series, automorphic forms and Griffiths-Schmid varieties: the case of the group U(2, 1)] **99k:22027**
Deitmar, Anton Erratum to: "Geometric zeta functions on p-adic groups" [Math. Japon. **47** (1998), no. 1, 1–17; MR 98m:11130]. **99f:11153**
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11F80 Galois properties

Ash, Avner (*with* Manjrekar, Rajesh) Galois representations and Hecke operators associated with the mod-p cohomology of $GL(m(p-1), \mathbf{Z})$. **99e:11066**
Böckle, Gebhard The generic fiber of the universal deformation space associated to a tame Galois representation. (English summary) **99j:11057**
Conrad, Brian The flat deformation functor. (*see* **99k:11004**)
— (*with* Diamond, Fred; Taylor, Richard L.) Modularity of certain potentially Barsotti-Tate Galois representations. **99i:11037**
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— *see also* **Conrad, Brian; et al., 99i:11037**
Edixhoven, Bas Serre's conjecture. (English summary) (*see* **99k:11004**)
Fontaine, Jean-Marc Deforming semistable Galois representations. (English summary) **99a:11064**
Gross, Benedict H. Modular forms (mod p) and Galois representations. **99j:11058**
Hida, Haruzo (*with* Maeda, Yoshitaka) Non-abelian base change for totally real fields. **99f:11068**
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van der Put, Marius (*with* Reversat, Marc) Automorphic forms and Drinfeld's reciprocity law. **99j:11059**
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Rohrlich, David E. (*with* Tunnell, Jerrold B.) An elementary case of Serre's conjecture. **99a:11066**
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Tilouine, Jacques ★ Deformations of Galois representations and Hecke algebras. **99i:11038**
— Deformations of Siegel-Hilbert Hecke eigensystems and their Galois representations. **99a:11067**
Tunnell, Jerrold B. *see* **Rohrlich, David E., 99a:11066**

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(Cornell, Gary) *see* **Modular forms and Fermat's last theorem, 99k:11004**
Darmon, Henri (*with* Diamond, Fred; Taylor, Richard L.) Fermat's last theorem. **99d:11067a**
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Diamond, Fred An extension of Wiles' results. (*see* **99k:11004**)
— (*with* Kramer, Kenneth) Appendix: classification of $\overline{\rho}_{E,l}$ by the j-invariant of E. (*see* **99k:11004**)
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Gelbart, Stephen Three lectures on the modularity of $\overline{\rho}_{E,3}$ and the Langlands reciprocity conjecture. (English summary) (*see* **99k:11004**)
Gouvêa, Fernando Q. (*with* Mazur, Barry) On the density of modular representations. (English summary) **99a:11056**
Khare, Chandrashekhar A local analysis of congruences in the (p, p) case. I. (English summary) **99h:11046**
Kramer, Jürg Über den Beweis der Fermat-Vermutung. II. (German summary) [On the proof of the Fermat conjecture. II] **99d:11061**
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Kraus, Alain Majorations effectives pour l'équation de Fermat généralisée. (French summary) [Effective upper bounds for the generalized Fermat equation] **99g:11039**
Kühnlein, Stefan Torsion classes in cohomology and Galois representations. (English summary) **99e:11065**
Mazur, Barry *see* **Gouvêa, Fernando Q., 99a:11056**
Rubin, Karl Modularity of mod 5 representations. (*see* **99k:11004**)
Saito, Takeshi Automorphic forms and p-adic Hodge theory. (Japanese) (*see* **99a:11003**)
Silverberg, Alice Explicit families of elliptic curves with prescribed mod N representations. (*see* **99k:11004**)
(Silverman, Joseph H.) *see* **Modular forms and Fermat's last theorem, 99k:11004**
Stevens, Glenn An overview of the proof of Fermat's last theorem. (*see* **99k:11004**)
— *see also* **Modular forms and Fermat's last theorem, 99k:11004**
Taylor, Richard L. *see* **Darmon, Henri; et al., 99d:11067a** *and* **99d:11067b**

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Boston, MA ★ Modular forms and Fermat's last theorem. **99k:11004**
Conference:
Number Theory and Arithmetic Geometry ★ Modular forms and Fermat's last theorem. **99k:11004**
Modular forms and Fermat's last theorem ★ Modular forms and Fermat's last theorem. **99k:11004**

11F85 p-adic theory, local fields [see also 14G20, 22E50]

Coleman, Robert F. Classical and overconvergent modular forms of higher level. (English and French summaries) **99g:11071**
Kaiser, Christian² ★ Ein getwistetes fundamentales Lemma für die GSp_4. (German) [A twisted fundamental lemma for GSp_4] **99k:11078**
Potemine, Igor Yu. Espaces symétriques p-adiques, mesures p-adiques et transformations intégrales. [p-adic symmetric spaces, p-adic measures and integral transformations] **99e:11067**
Saito, Takeshi Automorphic forms and p-adic Hodge theory. (Japanese) (*see* **99a:11003**)

Items with secondary classifications in 11F85

Breuil, Christophe Construction de représentations p-adiques semi-stables. (English and French summaries) [Construction of semistable p-adic representations] **99k:14034**
Coleman, Robert F. (*with* Edixhoven, Bas) On the semi-simplicity of the U_p-operator on modular forms. **99b:11043**
Edixhoven, Bas *see* **Coleman, Robert F., 99b:11043**
Gérardin, Paul Représentations du groupe SL_2 d'un corps local (d'après Gel'fand, Graev et Tanaka). [Representations of the group SL_2 of a local field (after Gel'fand, Graev and Tanaka)] (*see* **99f:00042**)
Hida, Haruzo Corrections to: "On Λ-adic forms of half integral weight for $SL(2)_{/Q}$" [in *Number theory (Paris, 1992–1993)*, 139–166, Cambridge Univ. Press, Cambridge, 1995; MR 96i:11049]. (*see* **99b:11003**)
— (*with* Maeda, Yoshitaka) Non-abelian base change for totally real fields. **99f:11068**
Khare, Chandrashekhar A local analysis of congruences in the (p, p) case. I. (English summary) **99h:11046**
Lemaire, Bertrand Algèbres de Hecke et corps locaux proches (une preuve de la conjecture de Howe pour $GL(N)$ en caractéristique > 0). [Hecke algebras and close local fields (a proof of the Howe conjecture for $GL(N)$ in characteristic > 0)] **99f:11064**
Maeda, Yoshitaka *see* **Hida, Haruzo, 99f:11068**
Perrin-Riou, Bernadette Zéros triviaux des fonctions L p-adiques, un cas particulier. (English and French summaries) [A particular case of the trivial zeros of p-adic L-functions] **99k:11097**
van der Put, Marius The structure of Ω and its quotients $\Gamma\backslash\Omega$. **99g:11075**
Tilouine, Jacques Deformations of Siegel-Hilbert Hecke eigensystems and their Galois representations. **99a:11067**
Valette, Alain Graphes de Ramanujan et applications. (French summary) [Ramanujan graphs and applications] **99k:11079**
Wan, Daqing Dimension variation of classical and p-adic modular forms. (English summary) **99d:11039**

11F99 None of the above, but in this section

Nishiwada, Kimimasa Algorithm of the arithmetic-geometric mean and its complex limits. (English summary) **99c:11065**
Valette, Alain Graphes de Ramanujan et applications. (French summary) [Ramanujan graphs and applications] **99k:11079**

Items with secondary classifications in 11F99

Butzer, Paul Leo (*with* Jansche, Stefan) The finite Mellin transform, Mellin-Fourier series, and the Mellin-Poisson summation formula. (English summary) **99j:44009**
Cornelissen, Gunther Drinfeld modular forms of level T. **99h:11058**
Jansche, Stefan *see* **Butzer, Paul Leo, 99j:44009**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

Items with secondary classifications in 11Gxx

(Gekeler, Ernst-Ulrich) *see* **Drinfeld modules, modular schemes and applications, 99b:11002**
(van der Put, Marius) *see* **Drinfeld modules, modular schemes and applications, 99b:11002**
(Reversat, Marc) *see* **Drinfeld modules, modular schemes and applications, 99b:11002**
(Van Geel, J.) *see* **Drinfeld modules, modular schemes and applications, 99b:11002**

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Alden-Biesen ★ Drinfeld modules, modular schemes and applications. **99b:11002**
Drinfeld modules, modular schemes and applications ★ Drinfeld modules, modular schemes and applications. **99b:11002**
Reviews in number theory ★ Reviews in number theory. 1984–96. Vol. 2B. **99c:11001b**
Workshop:
Drinfeld Modules, Modular Schemes and Applications ★ Drinfeld modules, modular schemes and applications. **99b:11002**

11G05 Elliptic curves over global fields [see also 14H52]

Adachi, Norio The history of the arithmetic of elliptic curves. (Japanese) **99a:11068**
Bertolini, Massimo (*with* Darmon, Henri) Non-triviality of families of Heegner points and ranks of Selmer groups over anticyclotomic towers. **99h:11053**
Cassels, J. W. S. Second descents for elliptic curves. **99d:11058**
Cheon, J. (*with* Hahn, Sang-Geun) The orders of the reductions of a point in the Mordell-Weil group of an elliptic curve. (English summary) **99c:11066**
— (*with* Hahn, Sang-Geun) Explicit valuations of division polynomials of an elliptic curve. (English summary) **99i:11039**
Coates, John (*with* Howson, Susan) Euler characteristics and elliptic curves. (English summary) **99b:11058**
Cremona, J. E. ★ Algorithms for modular elliptic curves. (English summary) **99e:11068**
— (*with* Serf, P.) Computing the rank of elliptic curves over real quadratic number fields of class number 1. (English summary) **99j:11060**
Darmon, Henri Stark-Heegner points over real quadratic fields. (English summary) **99f:11069**
— *see also* **Bertolini, Massimo, 99h:11053**
Dem'yanenko, V. A. Elliptic functions and the Fermat curve. (Russian) **99e:11069**
— On Mazur's conjecture. (Russian) **99g:11072**
Diamond, Fred An extension of Wiles' results. (*see* **99k:11004**)
— (*with* Kramer, Kenneth) Appendix: classification of $\overline{\rho}_{E,l}$ by the j-invariant of E. (*see* **99k:11004**)
Doud, Darrin A procedure to calculate torsion of elliptic curves over **Q**. (English summary) **99c:11067**
Duke, William Elliptic curves with no exceptional primes. (English and French summaries) **99b:11059**
(de Fermat, Pierre) *see* **Suominen, Kalevi**
Frey, Gerhard On ternary equations of Fermat type and relations with elliptic curves. (*see* **99k:11004**)
Fujiwara, Masahiko θ-congruent numbers. **99c:11068**
Gonzàlez Rovira, Josep (*with* Lario, Joan-C.) Rational and elliptic parametrizations of **Q**-curves. (English summary) **99f:11070**
Hahn, Sang-Geun *see* **Cheon, J., 99c:11066** *and* **99i:11039**
Halberstadt, Emmanuel Sur la courbe modulaire $X_{\text{ndép}}(11)$. (English and French summaries) [On the modular curve $X_{\text{nonsplit}}(11)$] **99m:11062**
— (*with* Kraus, Alain) Sur les modules de torsion des courbes elliptiques. [On torsion modules of elliptic curves] **99a:11069**
— (*with* Kraus, Alain) Une tordue de rang 4 d'une courbe elliptique de conducteur 15. (English summary) [A twist of rank 4 of an elliptic curve of conductor 15] **99b:11060**
Hasegawa, Yuji **Q**-curves over quadratic fields. **99a:11070**
Hayashi, Yoshiki Singuläre Moduln an den Heegner-Punkten für allgemeine Diskriminanten. (English summary) [Singular moduli at the Heegner points for general discriminants] **99h:11054**
Hibino, Takeshi (*with* Umegaki, Atsuki) Families of elliptic **Q**-curves defined over number fields with large degrees. (English summary) **99d:11059**
Howson, Susan *see* **Coates, John, 99b:11058**
Izu, Tetsuya *see* **Kogure, Jun; et al., (99h:00034)**
Kagawa, Takaaki Determination of elliptic curves with everywhere good reduction over certain real quadratic fields. (Japanese) **99j:11061**
— *see also* **Kida, Masanari, 99d:11060**
Karino, Kiyoshi Non-existence of elliptic curves with small conductors over imaginary quadratic fields. **99a:11071**
Kida, Masanari (*with* Kagawa, Takaaki) Nonexistence of elliptic curves with good reduction everywhere over real quadratic fields. **99d:11060**
— Reduction of elliptic curves over certain real quadratic number fields. (English summary) **99m:11063**
Kihara, Shoichi On the rank of the elliptic curve $y^2 = x^3 + kx$. **99j:11062**
Kogure, Jun (*with* Izu, Tetsuya; Yokoyama, Kazuhiro) Mounting an improved Schoof algorithm according to Atkin, Elkies et al. (Japanese. Japanese summary) (*see* **99h:00034**)

Kramer, Jürg Über den Beweis der Fermat-Vermutung. II. (German summary) [On the proof of the Fermat conjecture. II] **99d:11061**
Kramer, Kenneth *see* **Diamond, Fred**, (**99k:11004**)
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Liverance, Eric Binary cubic forms with many integral points. (English summary) **99c:11069**
Mestre, Jean-François Rang de certaines familles de courbes elliptiques d'invariant donné. (English and French summaries) [Rank of some families of elliptic curves with given modular invariant] **99j:11063**
Michel, Alexis Integral and modular representations attached to the Selmer group of an elliptic curve with complex multiplication. (English summary) **99m:11064**
Nakamura, Tetsuo[1] Cyclic torsion of elliptic curves. (English summary) **99i:11040**
Nemenzo, Fidel Ronquillo All congruent numbers less than 40000. **99e:11070**
Nitaj, Abderrahmane Détermination de courbes elliptiques pour la conjecture de Szpiro. [Determination of elliptic curves for the Szpiro conjecture] **99i:11041**
Pacelli, Patricia L. Uniform bounds for stably integral points on elliptic curves. (English summary) **99m:11065**
Pacheco, Amílcar Integral points on elliptic curves over function fields of positive characteristic. (English summary) **99j:11064**
Pakovitch, Fedor Combinatoire des arbres planaires et arithmétique des courbes hyperelliptiques. [Combinatorics of planar trees and arithmetic of hyperelliptic curves] **99h:11055**
Parent, Pierre Bornes effectives pour la torsion des courbes elliptiques sur les corps de nombres. (French summary) [Effective bounds for the torsion of elliptic curves over number fields] **99k:11080**
Park, Hwasin Relations among Shafarevich-Tate groups. **99f:11071**
Pethő, Attila (*with* Stein, Joachim; Weis, Thomas; Zimmer, Horst G.) Computing the torsion group of elliptic curves by the method of Gröbner bases. **99e:11071**
Rizzo, Ottavio G. Average root numbers in families of elliptic curves. (English summary) **99i:11042**
Roberts, Boyd B. (*with* Washington, Lawrence C.) The modularity of some Q-curves. (English summary) **99a:11072**
Rubin, Karl Modularity of mod 5 representations. (*see* **99k:11004**)
Serf, P. *see* **Cremona, J. E.**, **99j:11060**
Siksek, S. (*with* Smart, Nigel P.) On the complexity of computing the 2-Selmer group of an elliptic curve. (English summary) **99b:11061**
Silverberg, Alice Explicit families of elliptic curves with prescribed mod N representations. (*see* **99k:11004**)
Silverman, Joseph H. A survey of the arithmetic theory of elliptic curves. (*see* **99k:11004**)
— The average rank of an algebraic family of elliptic curves. (English summary) **99m:11066**
— Computing rational points on rank 1 elliptic curves via L-series and canonical heights. (English summary) **99i:11043**
Smart, Nigel P. *see* **Siksek, S.**, **99b:11061**
Stein, Joachim *see* **Pethő, Attila; et al.**, **99e:11071**
Suominen, Kalevi Elliptic curves and Fermat. (Finnish. Finnish summary)
Umegaki, Atsuki A construction of everywhere good Q-curves with p-isogeny. (English summary) **99d:11062**
— *see also* **Hibino, Takeshi**, **99d:11059**
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de Weger, Benjamin M. M. $A + B = C$ and big Ш's. (English summary) **99j:11065**
Weis, Thomas *see* **Pethő, Attila; et al.**, **99e:11071**
Welters, Gerald E. Selmer groups and Picard groups. (English summary) **99c:11070**
Yamamoto, Yoshihiko Canonical power series associated with elliptic curves over Q. (Japanese) (*see* **99d:11001**)
Yokoyama, Kazuhiro *see* **Kogure, Jun; et al.**, (**99h:00034**)
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Akiyama, Shigeki (*with* Tanigawa, Yoshio) Calculation of values of L-functions associated to elliptic curves. (English summary) **99m:11070**
Aspinwall, Paul S. (*with* Morrison, David R.) Non-simply-connected gauge groups and rational points on elliptic curves. (English summary) **99j:14040**
Bertolini, Massimo Growth of Mordell-Weil groups in anticyclotomic towers. (English summary) **99i:11048**
— (*with* Darmon, Henri) Heegner points, p-adic L-functions, and the Cerednik-Drinfeld uniformization. **99f:11080**
Buchholz, Ralph H. (*with* Rathbun, Randall L.) Heron triangles and elliptic curves. (English summary) **99h:11026**
Bugeaud, Yann On the size of integer solutions of elliptic equations. (English summary) **99h:11027**
(Coates, John) *see* **Elliptic curves, modular forms & Fermat's last theorem**, **99d:11002**
Conrad, Brian (*with* Diamond, Fred; Taylor, Richard L.) Modularity of certain potentially Barsotti-Tate Galois representations. **99i:11037**
(Cornell, Gary) *see* **Modular forms and Fermat's last theorem**, **99k:11004**
Darmon, Henri (*with* Diamond, Fred; Taylor, Richard L.) Fermat's last theorem. **99d:11067a**
— (*with* Diamond, Fred; Taylor, Richard L.) Fermat's last theorem. **99d:11067b**
— Wiles' theorem and the arithmetic of elliptic curves. (*see* **99k:11004**)
— *see also* **Bertolini, Massimo**, **99f:11080**
Delbourgo, Daniel Iwasawa theory for elliptic curves at unstable primes. (English summary) **99g:11083**
Diamond, Fred (*with* Ribet, Kenneth A.) l-adic modular deformations and Wiles's "main conjecture". (*see* **99k:11004**)
— *see also* **Darmon, Henri; et al.**, **99d:11067a**; **99d:11067b** *and* **Conrad, Brian; et al.**, **99i:11037**
Duke, William Bounds for arithmetic multiplicities. (English summary) **99j:11042**
Edixhoven, Bas Serre's conjecture. (English summary) (*see* **99k:11004**)
Feng, Keqin Non-congruent number, odd graph and the BSD conjecture on $y^2 = x^3 - n^2x$. (English summary) **99e:11085**
Gekeler, Ernst-Ulrich Highly ramified pencils of elliptic curves in characteristic 2. **99d:11063**
— (*with* Leitl, Rita; Wack, Bodo) Zeta functions of a class of elliptic curves over a rational function field of characteristic two. (English summary) **99i:11049**
Hajdu, L. (*with* Herendi, Tamás) Explicit bounds for the solutions of elliptic equations with rational coefficients. (English summary) **99a:11033**
Hellegouarch, Yves ★ Invitation aux mathématiques de Fermat-Wiles. (French. French summary) [Invitation to Fermat-Wiles mathematics] **99e:11001**
— À propos du théorème de Fermat. "Fermat vaincu!". [On Fermat's theorem. "Fermat defeated!"] **99j:11030**
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Hlaváček, Miloslav On the set of solutions of the system $x_1 + x_2 + x_3 = 1$, $x_1x_2x_3 = 1$. (English summary) **99a:11034**
Hutchinson, Tim A conjectural extension of the Gross-Zagier formula on singular moduli. (English summary) **99j:11131**
Kraus, Alain Majorations effectives pour l'équation de Fermat généralisée. (French summary) [Effective upper bounds for the generalized Fermat equation] **99g:11039**
— Sur l'équation $a^3 + b^3 = c^p$. (English and French summaries) [On the equation $a^3 + b^3 = c^p$] **99f:11040**
Leitl, Rita *see* **Gekeler, Ernst-Ulrich; et al.**, **99i:11049**
Luo, Wenzhi (*with* Ramakrishnan, Dinakar) Determination of modular elliptic curves by Heegner points. **99b:11069**
Morrison, David R. *see* **Aspinwall, Paul S.**, **99j:14040**
Ono, Ken A note on a question of J. Nekovář and the Birch and Swinnerton-Dyer conjecture. (English summary) **99a:11081**
Pethő, Attila (*with* Zimmer, Horst G.) On a system of norm-equations over cyclic cubic number fields. (English summary) **99k:11168**
Pomykała, Jacek Non-vanishing of n-th derivatives of twisted elliptic L-functions in the critical point. (English and French summaries) **99b:11070**
Poonen, Bjorn Some Diophantine equations of the form $x^n + y^n = z^m$. **99h:11034**
— Drinfeld modules with no supersingular primes. (English summary) **99a:11074**
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Rathbun, Randall L. *see* **Buchholz, Ralph H.**, **99h:11026**
Ribenboim, Paulo An algorithm to determine the points with integral coordinates in certain elliptic curves. (English summary) **99j:11028**
Ribet, Kenneth A. (*with* Takahashi, Shuzo) Parametrizations of elliptic curves by Shimura curves and by classical modular curves. (English summary) **99e:11080**
— *see also* **Diamond, Fred**, (**99k:11004**)
Sato, Hisayoshi Kummer expansions and Mordell-Weil rank of elliptic curves. (Japanese) (*see* **99d:11001**)
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— *see also* **Modular forms and Fermat's last theorem**, **99k:11004**
Stroeker, Roelof J. (*with* de Weger, Benjamin M. M.) Solving elliptic Diophantine equations: the general cubic case. **99m:11029**
Takahashi, Shuzo *see* **Ribet, Kenneth A.**, **99e:11080**
Tanigawa, Yoshio *see* **Akiyama, Shigeki**, **99m:11070**
Taylor, Richard L. *see* **Darmon, Henri; et al.**, **99d:11067a**; **99d:11067b** *and* **Conrad, Brian; et al.**, **99i:11037**
Vatsal, V. Congruences for the special values of modular L-functions. (English and French summaries) **99i:11036**
— Rank-one twists of a certain elliptic curve. **99i:11050**
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(Yau, Shing-Tung) *see* **Elliptic curves, modular forms & Fermat's last theorem**, **99d:11002**
Zhang, Shaowei A note on the Tate-Shafarevich group of some elliptic curves. (English and Chinese summaries) **99i:11052**
Zimmer, Horst G. Basic algorithms for elliptic curves. **99c:11161**
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Boston, MA ★ Modular forms and Fermat's last theorem. **99k:11004**
Conference:
Elliptic Curves and Modular Forms ★ Elliptic curves, modular forms & Fermat's last theorem. **99d:11002**
Number Theory and Arithmetic Geometry ★ Modular forms and Fermat's last theorem. **99k:11004**
Elliptic curves, modular forms & Fermat's last theorem ★ Elliptic curves, modular forms & Fermat's last theorem. **99d:11002**
Hong Kong ★ Elliptic curves, modular forms & Fermat's last theorem. **99d:11002**
Modular forms and Fermat's last theorem ★ Modular forms and Fermat's last theorem. **99k:11004**

11G07 Elliptic curves over local fields [see also 14G20, 14H52]

Allouche, Jean-Paul (*with* Thakur, Dinesh S.) Automata and transcendence of the Tate period in finite characteristic. (English summary) **99h:11056**
Araki, Kiyomichi *see* **Satoh, Takakazu**, **99m:11067**
Baker, Andrew James A supersingular congruence for modular forms. **99j:11066**
Gekeler, Ernst-Ulrich Highly ramified pencils of elliptic curves in characteristic 2. **99d:11063**
— Local and global ramification properties of elliptic curves in characteristics two and three. **99k:11081**
Halberstadt, Emmanuel Signes locaux des courbes elliptiques en 2 et 3. (English and French summaries) [Local root numbers of elliptic curves for $p = 2$ or 3] **99k:11082**
Satoh, Takakazu (*with* Araki, Kiyomichi) Fermat quotients and polynomial time algorithms for finding discrete logarithms of anomalous elliptic curves. (Japanese) **99m:11067**
Thakur, Dinesh S. *see* **Allouche, Jean-Paul**, **99h:11056**

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Müller, Volker[2] Fast multiplication on elliptic curves over small fields of characteristic two. (English summary) **99j:11147**
Satoh, Takakazu (*with* Araki, Kiyomichi) Fermat quotients and the polynomial time discrete log algorithm for anomalous elliptic curves. **99e:11083**

11G09 Drinfel'd modules; higher-dimensional motives, etc. [see also 14L05]

Bertrand, Daniel Relative splitting of one-motives. **99a:11073**
Bloch, Spencer Lectures on mixed motives. **99g:11073**
Blum, Andreas (*with* Stuhler, U.) Drinfeld modules and elliptic sheaves. **99c:11071**
Cadic, Christophe Modules de Drinfeld formels et algébricité. (English and French summaries) [Formal Drinfel'd modules and algebraicity] **99f:11072**
Cornelissen, Gunther A survey of Drinfeld modular forms. **99h:11057**
— Drinfeld modular forms of level T. **99h:11058**
Gekeler, Ernst-Ulrich (*with* Snyder, Brian A.) Drinfeld modules over finite fields. **99i:11044**
— Some new results on modular forms for $\mathrm{GL}(2, \mathbf{F}_q[T])$. **99j:11067**
Hsia, Liang-chung On the coefficients of modular polynomials for Drinfeld modules. **99h:11059**
Lafforgue, Laurent Chtoucas de Drinfeld et conjecture de Ramanujan-Petersson. [Drinfel'd shtukas and the Ramanujan-Petersson conjecture] **99c:11072**
López, Bartolomé Analytic theory of Drinfel'd modules. (English summary) **99e:11072**
Matzat, B. Heinrich Introduction to Drinfeld modules. **99i:11045**
Mauduit, Véronique Explicit reciprocity law for a rank one Drinfeld $\mathbf{F}_q[t]$-module. **99g:11074**
Niederreiter, Harald (*with* Xing, Chaoping) Drinfeld modules of rank 1 and algebraic curves with many rational points. II. **99d:11064**
Poonen, Bjorn Drinfeld modules with no supersingular primes. (English summary) **99a:11074**
Potemine, Igor Yu. Drinfeld-Anderson motives and multicomponent KP hierarchy. (English summary) **99k:11083**
van der Put, Marius The structure of Ω and its quotients $\Gamma\backslash\Omega$. **99g:11075**
— (*with* Top, Jaap) Analytic compactification and modular forms. **99h:11060**
— (*with* Top, Jaap) Algebraic compactification and modular interpretation. **99k:11084**
Saïdi, Mohamed Moduli schemes of Drinfeld modules. **99g:11076**
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Tipp, Ulrich Local height pairings of Heegner points on Drinfeld curves. **99f:11073**
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Yang, Zifeng Locally analytic functions over completions of $\mathbf{F}_r[U]$. (English summary) **99h:11062**

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Bae, Sunghan (*with* Kang, Pyung-Lyun) Elliptic units and class fields of global function fields. (English summary) **99b:11063**
— (*with* Jung, Hwan Yup) Elliptic modules of rank one and class fields of function fields. (English summary) **99h:11132**
— (*with* Kang, Pyung-Lyun) A remark on the class number formulas over global function fields. (English summary) **99j:11135**
Denis, Laurent Valeurs transcendantes des fonctions de Bessel-Carlitz. [Transcendental values of Bessel-Carlitz functions] **99f:11093**
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Morel, Fabien Voevodsky's proof of Milnor's conjecture. **99e:19005**
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Rebinguet, Nadja Sur les zéros des séries d'Eisenstein dans le demi-plan de Drinfeld. (English and French summaries) [Zeroes of Eisenstein series in the Drinfel'd upper half-plane] **99h:11045**
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11G10 Abelian varieties of dimension > 1 [see also 14Kxx]

Cardona, G. (*with* Gonzàlez Rovira, Josep; Lario, Joan-C.; Rio, Anna) On curves of genus 2 with Jacobian of GL_2-type. (English summary) **99j:11068**
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Lario, Joan-C. *see* **Cardona, G.; et al.**, **99j:11068**
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Scanlon, Thomas Warren The *abc* theorem for commutative algebraic groups in characteristic p. **99b:11062**
Schaefer, Edward F. Computing a Selmer group of a Jacobian using functions on the curve. **99h:11063**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Subgroups of inertia groups arising from abelian varieties. (English summary) **99j:11069**
— (*with* Zarkhin, Yu. G.) Semistable reduction of abelian varieties over extensions of small degree. (English summary) **99k:11085**
— (*with* Zarkhin, Yu. G.) Connectedness extensions for abelian varieties. **99d:11065**
Werner, Annette Local heights on abelian varieties and rigid analytic uniformization. (English summary) **99k:11086**
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Buium, Alexandru ★ Differential algebra and Diophantine geometry. (English summary) **99k:12010**
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Fujimori, Masami A remark on naive height of a polarized abelian variety and its applications. **99a:14069**
Gonzàlez Rovira, Josep On the p-rank of an abelian variety and its endomorphism algebra. (English summary) **99i:14049**
Jorgenson, Jay (*with* Kramer, Jürg) Towards the arithmetic degree of line bundles on abelian varieties. (English summary) **99h:11047**
Kamienny, Sheldon (*with* Wetherell, Joseph L.) On torsion in abelian varieties. **99d:14045**
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Kramer, Jürg *see* **Jorgenson, Jay**, **99h:11047**
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Milne, J. S. Lefschetz classes on abelian varieties. **99m:14017**
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Quer, Jordi La classe de Brauer de l'algèbre d'endomorphismes d'une variété abélienne modulaire. (English and French summaries) [The Brauer class of the endomorphism algebra of a modular abelian variety] **99j:14045**
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Tankeev, S. G. On Frobenius traces. (Russian. Russian summary) **99h:14046**
— Algebraic cycles on a simple $4p$-dimensional abelian variety over a number field. (English summary) **99m:14079**
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Welters, Gerald E. Abelian varieties and the class invariant homomorphism. (English summary) **99m:14080**
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11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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Colmez, Pierre Sur la hauteur de Faltings des variétés abéliennes à multiplication complexe. (English summary) [On the Faltings height of abelian varieties with complex multiplication] **99e:11074**
Edixhoven, Bas Special points on the product of two modular curves. (English summary) **99k:11087**
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— (*with* Hulek, Klaus) Commutator coverings of Siegel threefolds. **99e:11075**
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Samuel, Pierre Travaux de Shimura et Taniyama sur la multiplication complexe. [Works of Shimura and Taniyama on complex multiplication] (*see* **99f:00035**)

Shimura, Goro ★ Abelian varieties with complex multiplication and modular functions. (English summary) **99e:11076**
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Hashimoto, Ki-ichiro (*with* Tsunogai, Hiroshi) On the Sato-Tate conjecture for QM-curves of genus two. (English summary) **99m:11072**
(Hilbert, David[1]) *see* **Schappacher, Norbert, 99e:11002**
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11G16 Elliptic and modular units [see also 11R27]

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11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

Abbes, Ahmed (*with* Ullmo, Emmanuel) Auto-intersection du dualisant relatif des courbes modulaires $X_0(N)$. [Self-intersection of the relative dualizing sheaf of the modular curves $X_0(N)$] **99e:11077**
Chen, Imin The Jacobians of non-split Cartan modular curves. **99m:11068**
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— (*with* Diamond, Fred; Taylor, Richard L.) Fermat's last theorem. **99d:11067b**
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Hazama, Fumio Determinantal formula for the cuspidal class number of the modular curve $X_1(m)$. (English summary) **99e:11079a**
— Corrigendum: "Determinantal formula for the cuspidal class number of the modular curve $X_1(m)$". **99e:11079b**
Hibino, Takeshi (*with* Murabayashi, Naoki) Modular equations of hyperelliptic $X_0(N)$ and an application. **99a:11076**
Kim, Chang Heon (*with* Koo, Ja Kyung) Some notes on the genus of modular curve $X_0^0(N)$. (English summary) **99h:11064**
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Ribet, Kenneth A. (*with* Takahashi, Shuzo) Parametrizations of elliptic curves by Shimura curves and by classical modular curves. (English summary) **99e:11080**
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Buecker, Karsten On the control theorem for the symplectic group. (English summary) **99m:11056**
Conrad, Brian (*with* Diamond, Fred; Taylor, Richard L.) Modularity of certain potentially Barsotti-Tate Galois representations. **99i:11037**
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Dolgachev, Igor V. Invariant stable bundles over modular curves $X(p)$. **99j:14036**
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Harris, Michael (*with* Li, Jian-Shu) A Lefschetz property for subvarieties of Shimura varieties. (English summary) **99e:14027**
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Kaiser, Christian[2] ★ Ein getwistetes fundamentales Lemma für die GSp_4. (German) [A twisted fundamental lemma for GSp_4] **99k:11078**
Kani, E. (*with* Schanz, W.) Modular diagonal quotient surfaces. **99a:14031**
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11G20 Curves over finite and local fields [see also 14H25]

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Kaneko, Masanobu (*with* Zagier, Don) Supersingular j-invariants, hypergeometric series, and Atkin's orthogonal polynomials. **99b:11064**
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Morain, F. Classes d'isomorphismes des courbes elliptiques supersingulières en caractéristique ≥ 3. (French summary) [Isomorphism classes of supersingular elliptic curves in characteristic ≥ 3] **99k:11089**
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Niederreiter, Harald Nets, (t, s)-sequences, and algebraic curves over finite fields with many rational points. (English summary) **99k:11090**
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Fishman, V. M. The structure of the Tate module of the Jacobian variety of a curve with potentially good reduction. (Russian. Russian summary) **99b:14023**
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Joye, Marc (*with* Quisquater, Jean-Jacques) Reducing the elliptic curve cryptosystem of Meyer-Müller to the cryptosystem of Rabin-Williams. (English summary)
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— *see also* **Buhler, Joe, 99j:11145**
Kraus, Alain Sur l'équation $a^3 + b^3 = c^p$. (English and French summaries) [On the equation $a^3 + b^3 = c^p$] **99f:11040**
Ling, San On component groups of $J_0(N)$ and degeneracy maps. (English summary) **99a:11077**
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Meier, Willi (*with* Staffelbach, Othmar) Kryptographie und elliptische Kurven. (German summary) [Cryptography and elliptic curves] **99b:94038**
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"Liftings of Galois covers of smooth curves" Errata: "Liftings of Galois covers of smooth curves" [Compositio Math. **113** (1998), no. 3, 237–272; MR 99k:14045a] by B. Green and M. Matignon. **99k:14045b**

11G25 Varieties over finite and local fields [see also 14G15, 14G20]

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Dem'yanenko, V. A. Torsion of elliptic curves over cyclotomic fields. (Russian. Russian summary) **99f:11075**
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Breuil, Christophe Construction de représentations p-adiques semi-stables. (English and French summaries) [Construction of semistable p-adic representations] **99k:14034**
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Dummigan, N. P. Algebraic cycles and even unimodular lattices. **99c:11084**
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Hirschfeld, J. W. P. Codes on curves and their geometry. (English summary) **99c:94057**
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Scanlon, Thomas Warren p-adic distance from torsion points of semi-abelian varieties. (English summary) **99h:14027**
Schmidt, Wolfgang M. Heights of points on subvarieties of $\mathbf{G}_m^n$. **99h:11070**
Voloch, José Felipe Periods of ordinary abelian varieties in characteristic p. (English summary) **99j:14046**
Werner, Annette Local heights on abelian varieties and rigid analytic uniformization. (English summary) **99k:11086**
Zarkhin, Yu. G. p-adic abelian integrals and commutative Lie groups. (English summary) **99e:14026**

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

Bilu, Yuri F. Integral points of Galois covers. **99j:11074**
Bombieri, Enrico (*with* Cohen, Paula Beazley) Siegel's lemma, Padé approximations and Jacobians. **99k:11092**
Cohen, Paula Beazley *see* **Bombieri, Enrico, 99k:11092**
Coleman, Robert F. (*with* Tamagawa, Akio; Tzermias, Pavlos) The cuspidal torsion packet on the Fermat curve. (English summary) **99b:11066**
Fujimori, Masami ★ Integral and rational points on algebraic curves of certain types and their Jacobian varieties over number fields. **99b:11067**
— Rational points of a curve which has a nontrivial automorphism. **99c:11075**
Guletskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Reciprocity laws in Brauer groups of function fields of numerical curves with special Jacobians. (Russian. English and Russian summaries) **99f:11077**
Hazama, Fumio Pell equations for polynomials. (English summary) **99d:11068**
Hsia, Liang-chung On the dynamical height zeta functions. **99c:11076**
Kim, Minhyong Purely inseparable points on curves of higher genus. **99k:11093**
Kulesz, Leopoldo Courbes algébriques de genre ≥ 2 possédant de nombreux points rationnels. [Algebraic curves of genus ≥ 2 with many rational points] **99k:11094**
Maeda, Hironobu Auflösung der Flächensingularitäten und stabile Reduktion der Fermatkurve. (English summary) [Resolution of surface singularities and stable reduction of the Fermat curve] **99f:11078**
Poulakis, Dimitrios Bounds for the minimal solution of genus zero Diophantine equations. **99d:11069**
Shioda, Tetsuji Constructing curves with high rank via symmetry. (English summary) **99g:11080**
Stoll, Michael On the arithmetic of the curves $y^2 = x^l + A$ and their Jacobians. (English summary) **99h:11069**
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Tzermias, Pavlos Arithmetic of cyclic quotients of the Fermat quintic. **99c:11077**
— Torsion parts of Mordell-Weil groups of Fermat Jacobians. **99c:11078**
— Algebraic points of low degree on the Fermat curve of degree seven. (English summary) **99j:11075**
— *see also* **Coleman, Robert F.; et al., 99b:11066**
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Abbes, Ahmed (*with* Ullmo, Emmanuel) Auto-intersection du dualisant relatif des courbes modulaires $X_0(N)$. [Self-intersection of the relative dualizing sheaf of the modular curves $X_0(N)$] **99e:11077**
Dussaud, René Équations et courbes algébriques associées au théorème de Fermat. [Equations and algebraic curves associated with Fermat's theorem] (*see* **99k:00023**)
Gasbarri, Carlo Hauteurs canoniques sur l'espace de modules des fibrés stables sur une courbe algébrique. (English and French summaries) [Canonical heights on the moduli space of stable bundles over an algebraic curve] **99e:14029**
Hazama, Fumio Determinantal formula for the cuspidal class number of the modular curve $X_1(m)$. (English summary) **99e:11079a**
— Corrigendum: "Determinantal formula for the cuspidal class number of the modular curve $X_1(m)$". **99e:11079b**
Ishida, Nobuhiko Generators and equations for modular function fields of principal congruence subgroups. **99j:11040**
Kühn, Ulf Generalized arithmetic intersection numbers. (English and French summaries) **99j:14026**
Poonen, Bjorn Some Diophantine equations of the form $x^n + y^n = z^m$. **99h:11034**
Poulakis, Dimitrios Estimation effective des points entiers d'une famille de courbes algébriques. (English and French summaries) [Effective estimation of the integral points of a family of algebraic curves] **99a:14030**
Schaefer, Edward F. Computing a Selmer group of a Jacobian using functions on the curve. **99h:11063**
Ullmo, Emmanuel Positivité et discrétion des points algébriques des courbes. [Positivity and discreteness of algebraic points of curves] **99e:14031**
— *see also* **Abbes, Ahmed, 99e:11077**
Wolfart, Jürgen The "obvious" part of Belyi's theorem and Riemann surfaces with many automorphisms. **99a:14036**

11G35 Varieties over global fields [see also 14G25]

Borovoi, Mikhail (*with* Kunyavskiĭ, Boris È.) On the Hasse principle for homogeneous spaces with finite stabilizers. (English and French summaries) **99b:11068**

Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Hasse principle for pencils of curves of genus one whose Jacobians have rational 2-division points. **99k:11095**
Harari, David Principe de Hasse et approximation faible sur certaines hypersurfaces. (English and French summaries) [The Hasse principle and weak approximation on certain hypersurfaces] **99c:11080**
Jannsen, Uwe Principe de Hasse cohomologique. [Cohomological Hasse principle] **99a:11080**
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Mikkelsen, Per Effective bounds for integral points on arithmetic surfaces. **99g:11081**
Morishita, Masanori (*with* Watanabe, Takao) On S-Hardy-Littlewood homogeneous spaces. (English summary) **99g:11082**
Schmidt, Wolfgang M. Heights of points on subvarieties of G_m^n. **99h:11070**
Skorobogatov, A. N. *see* **Colliot-Thélène, J.-L.; et al.**, **99k:11095**
Swinnerton-Dyer, H. P. F. Brauer-Manin obstructions on some Del Pezzo surfaces. **99h:11071**
— *see also* **Colliot-Thélène, J.-L.; et al.**, **99k:11095**
Vojta, Paul A more general *abc* conjecture. **99k:11096**
Voloch, José Felipe Diophantine geometry in characteristic p: a survey. **99c:11081**
Watanabe, Takao *see* **Morishita, Masanori**, **99g:11082**

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Abbes, Ahmed Hauteurs et discrétude (d'après L. Szpiro, E. Ullmo et S. Zhang). (French summary) [Heights and discreteness (after L. Szpiro, E. Ullmo and S. Zhang)] **99h:14029**
— (*with* Ullmo, Emmanuel) Auto-intersection du dualisant relatif des courbes modulaires $X_0(N)$. [Self-intersection of the relative dualizing sheaf of the modular curves $X_0(N)$] **99e:11077**
Bertrand, Daniel Relative splitting of one-motives. **99a:11073**
Billard, Hervé Propriétés arithmétiques d'une famille de surfaces $K3$. (English and French summaries) [Arithmetical properties of a family of $K3$ surfaces] **99g:14029**
Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Rational points and zero-cycles on fibred varieties: Schinzel's hypothesis and Salberger's device. **99i:14027**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with base $\mathbf{P}^1$. **99a:14028**
— (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with elliptic base. **99m:11071**
Harari, David Obstructions de Manin transcendantes. [Transcendental Manin obstructions] **99e:14025**
Jahnel, Jörg Heights for line bundles on arithmetic varieties. (English summary) **99g:14030**
Langer, Andreas 0-cycles on the elliptic modular surface of level 4. (English summary) **99k:14009**
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Manin, Yuriĭ Ivanovich Mordell-Weil problem for cubic surfaces. **99a:14029**
Moroz, B. Z. On the distribution of integer points in the real locus of an affine toric variety. **99i:14026**
Robbiani, Marcello On the arithmetic of isotropic del Pezzo surfaces of degree six. (English summary) **99m:14041**
Rosen, Michael (*with* Silverman, Joseph H.) On the rank of an elliptic surface. (English summary) **99f:11081**
Shafarevich, Igor R. On some arithmetic properties of algebraic varieties. **99m:14044**
Silverman, Joseph H. The average rank of an algebraic family of elliptic curves. (English summary) **99m:11066**
— *see also* **Rosen, Michael**, **99f:11081**
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Zhang, Shou-Wu Small points and Arakelov theory. (English summary) **99i:14030**

11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

Akiyama, Shigeki (*with* Tanigawa, Yoshio) Calculation of values of L-functions associated to elliptic curves. (English summary) **99m:11070**
Bertolini, Massimo Growth of Mordell-Weil groups in anticyclotomic towers. (English summary) **99i:11048**
— (*with* Darmon, Henri) A rigid analytic Gross-Zagier formula and arithmetic applications. **99f:11079**
— (*with* Darmon, Henri) Heegner points, p-adic L-functions, and the Cerednik-Drinfeld uniformization. **99f:11080**
Borel, Armand Opérateurs de Hecke et fonctions zêta. [Hecke operators and zeta functions] (*see* **99f:00041**)
Boyd, David W. Mahler's measure and special values of L-functions. (English summary) **99d:11070**
Chavdarov, Nick The generic irreducibility of the numerator of the zeta function in a family of curves with large monodromy. **99d:11071**
Darmon, Henri Wiles' theorem and the arithmetic of elliptic curves. (*see* **99k:11004**)
— *see also* **Bertolini, Massimo**, **99f:11079** *and* **99f:11080**
Delbourgo, Daniel Iwasawa theory for elliptic curves at unstable primes. (English summary) **99g:11083**
Deninger, Christopher Some analogies between number theory and dynamical systems on foliated spaces. (English summary) **99g:11084**
(Edixhoven, Bas) *see* **Bertolini, Massimo**, **99f:11079**
Feng, Keqin Non-congruent number, odd graph and the BSD conjecture on $y^2 = x^3 - n^2x$. (English summary) **99e:11085**
Gekeler, Ernst-Ulrich (*with* Leitl, Rita; Wack, Bodo) Zeta functions of a class of elliptic curves over a rational function field of characteristic two. (English summary) **99i:11049**
Goncharov, A. B. The double logarithm and Manin's complex for modular curves. **99e:11086**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with elliptic base. **99m:11071**
Hashimoto, Ki-ichiro (*with* Tsunogai, Hiroshi) On the Sato-Tate conjecture for QM-curves of genus two. (English summary) **99m:11072**
Leitl, Rita *see* **Gekeler, Ernst-Ulrich; et al.**, **99i:11049**
Luo, Wenzhi (*with* Ramakrishnan, Dinakar) Determination of modular elliptic curves by Heegner points. **99b:11069**
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Ono, Ken A note on a question of J. Nekovář and the Birch and Swinnerton-Dyer conjecture. (English summary) **99a:11081**
Perrin-Riou, Bernadette p-adic L functions and trivial zeroes. (English summary) **99g:11085**
— Zéros triviaux des fonctions L p-adiques, un cas particulier. (English and French summaries) [A particular case of the trivial zeros of p-adic L-functions] **99k:11097**
Pomykała, Jacek Non-vanishing of n-th derivatives of twisted elliptic L-functions in the critical point. (English and French summaries) **99b:11070**
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Rosen, Michael (*with* Silverman, Joseph H.) On the rank of an elliptic surface. (English summary) **99f:11081**
Rück, Hans-Georg (*with* Tipp, Ulrich) A Gross-Zagier formula for function fields. **99k:11098**
Sato, Hisayoshi Kummer expansions and Mordell-Weil rank of elliptic curves. (Japanese) (*see* **99d:11001**)
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Stöhr, Karl-Otto Local and global zeta-functions of singular algebraic curves. (English summary) **99e:11087**
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Tate, John On the conjectures of Birch and Swinnerton-Dyer and a geometric analog. (*see* **99f:00041**)
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Vatsal, V. Rank-one twists of a certain elliptic curve. **99i:11050**
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Yoshitomi, Kentaro Height functions on Jacobian curves and the Birch-Swinnerton-Dyer conjecture. (Japanese) **99i:11051**
— On height functions on Jacobian surfaces. (English summary) **99e:11088**
Zhang, Shaowei A note on the Tate-Shafarevich group of some elliptic curves. (English and Chinese summaries) **99i:11052**

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Bertolini, Massimo (*with* Darmon, Henri) Non-triviality of families of Heegner points and ranks of Selmer groups over anticyclotomic towers. **99h:11053**
Björner, Anders (*with* Sarkaria, Karanbir S.) The zeta function of a simplicial complex. (English summary) **99f:52017**
Blasius, Don Period relations and critical values of L-functions. **99c:11054**
Coates, John (*with* Howson, Susan) Euler characteristics and elliptic curves. (English summary) **99b:11058**
Consani, Caterina Double complexes and Euler L-factors. (English summary) **99b:11065**
Cremona, J. E. ★ Algorithms for modular elliptic curves. (English summary) **99c:11068**
Darmon, Henri Stark-Heegner points over real quadratic fields. (English summary) **99f:11069**
— *see also* **Bertolini, Massimo**, **99h:11053**
Goncharov, A. B. (*with* Levin, Andreĭ Mikhailovich) Zagier's conjecture on $L(E, 2)$. (English summary) **99h:19006**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with base $\mathbf{P}^1$. **99a:14028**
Halberstadt, Emmanuel Signes locaux des courbes elliptiques en 2 et 3. (English and French summaries) [Local root numbers of elliptic curves for $p = 2$ or 3] **99k:11082**
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Ono, Ken (*with* Skinner, Christopher) Fourier coefficients of half-integral weight modular forms modulo l. **99f:11059a**
— (*with* Skinner, Christopher) Corrigendum: "Fourier coefficients of half-integral weight modular forms modulo l". **99f:11059b**
— Partitions into distinct parts and elliptic curves. (English summary) **99f:11139**
Perrin-Riou, Bernadette Systèmes d'Euler p-adiques et théorie d'Iwasawa. (English and French summaries) [p-adic Euler systems and Iwasawa theory] **99m:11124**
Rizzo, Ottavio G. Average root numbers in families of elliptic curves. (English summary) **99i:11042**
Rohrlich, David E. Modular curves, Hecke correspondence, and L-functions. (*see* **99k:11004**)
Sarkaria, Karanbir S. *see* **Björner, Anders**, **99f:52017**
Serre, Jean-Pierre Rationalité des fonctions ζ des variétés algébriques (d'après Bernard Dwork). [Rationality of the ζ-functions of algebraic varieties (after Bernard Dwork)] (*see* **99f:00037**)
She, Xiaotie On the non-vanishing of cubic twists of automorphic L-series. (English summary) **99e:11060**
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Solé, Patrick Sato-Tate conjectures and Chebyshev polynomials. (English summary) **99d:11043**
Tipp, Ulrich Local height pairings of Heegner points on Drinfeld curves. **99f:11073**
de Weger, Benjamin M. M. $A + B = C$ and big III's. (English summary) **99j:11065**

11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

Tian, Qingchun Class field theory for arithmetic surfaces. (English summary) **99b:11071**

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Jannsen, Uwe Principe de Hasse cohomologique. [Cohomological Hasse principle] **99a:11080**

Serre, Jean-Pierre Théorie du corps de classes pour les revêtements non ramifiés de variétés algébriques (d'après S. Lang). [Theory of class fields for nonramified coverings of algebraic varieties (after S. Lang)] (*see* **99f:00035**)

11G99 None of the above, but in this section

Poonen, Bjorn The classification of rational preperiodic points of quadratic polynomials over **Q**: a refined conjecture. **99j:11076**

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(Berthelot, P.) *see* **Huyghe, C., 99c:14031**

Gan, Wee Teck *see* **Gross, Benedict H., 99f:20078**

Goncharov, A. B. Volumes of hyperbolic manifolds and mixed Tate motives. **99i:19004**

Gross, Benedict H. (*with* Gan, Wee Teck) Haar measure and the Artin conductor. (English summary) **99f:20078**

Gyoja, Akihiko Mixed Hodge theory and prehomogeneous vector spaces. **99i:14009**

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Ihara, Yasutaka What comes next after $\mathbf{Q}(\mu_{l^\infty})$? **99c:14032**

Morishita, Masanori Hasse principle and approximation theorems for homogeneous spaces. **99e:11047**

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11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

Malyshev, A. V. Fundamental concepts and theorems of the geometry of numbers. (Russian. English and Russian summaries) **99h:11072**

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11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

Bacher, Roland Tables de réseaux entiers unimodulaires construits comme k-voisins de $\mathbf{Z}^n$. (English and French summaries) [Tables of unimodular integral lattices constructed as k-neighbors of $\mathbf{Z}^n$] **99b:11072**

Banihashemi, Amir H. (*with* Khandani, Amir K.) On the decoding complexity of lattices. (English summary) **99k:11099**

Bardakov, V. G. On orthogonal bases of rational lattices. (Russian. Russian summary) **99k:11100**

Cusick, Thomas W. Finite vector spaces and certain lattices. (English summary) **99b:11073**

Deza, Michel-Marie (*with* Grishukhin, V. P.) Odd systems of vectors and related lattices. (English summary) **99k:11101**

Grishukhin, V. P. *see* **Deza, Michel-Marie, 99k:11101**

Gruber, Boris Alternative formulae for the number of sublattices. (English summary) **99b:11074**

Khandani, Amir K. *see* **Banihashemi, Amir H., 99k:11099**

Martinet, Jacques Algebraic constructions of lattices; isodual lattices. **99c:11082**

Nebe, Gabriele Some cyclo-quaternionic lattices. (English summary) **99b:11075**

Ratcliffe, John G. (*with* Tschantz, Steven T.) Volumes of integral congruence hyperbolic manifolds. **99b:11076**

Schmidt, Wolfgang M. The distribution of sublattices of $\mathbf{Z}^m$. (English summary) **99c:11083**

Thunder, Jeffrey Lin Higher-dimensional analogs of Hermite's constant. **99f:11082**

Tschantz, Steven T. *see* **Ratcliffe, John G., 99b:11076**

Wan, Zhe-Xian A characteristic property of self-orthogonal codes and its application to lattices. (English summary) **99d:11072**

Žunić, Joviša D. Notes on optimal convex lattice polygons. (English summary) **99k:11102**

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Alarcon, Eberth An extremal result on convex lattice polygons. (English summary) **99h:52018**

Bacher, Roland (*with* de la Harpe, Pierre; Nagnibeda, Tatiana) The lattice of integral flows and the lattice of integral cuts on a finite graph. (English and French summaries) **99c:05111**

Campbell, Geoffrey B. Visible point vector summations from hypercube and hyperpyramid lattices. (English summary) **99h:11014**

Cao, Chun (*with* Gehring, F. W.; Martin, G. J.) Lattice constants and a lemma of Zagier. (English summary) **99a:30040**

Conway, John H. (*with* Sloane, Neil J. A.) A note on optimal unimodular lattices. (English summary) **99k:11104**

Gehring, F. W. *see* **Cao, Chun; et al., 99a:30040**

Grunewald, Fritz (*with* Kühnlein, Stefan) On the proof of Humbert's volume formula. (English summary) **99h:11044**

de la Harpe, Pierre *see* **Bacher, Roland; et al., 99c:05111**

Heckler, Christian (*with* Thiele, L.) Complexity analysis of a parallel lattice basis reduction algorithm. (English summary) **99f:11159**

Kołodziejczyk, Krzysztof The boundary characteristic and the volume of lattice polyhedra. (English summary) **99k:52022**

Kondō, Shigeyuki Niemeier lattices, Mathieu groups, and finite groups of symplectic automorphisms of $K3$ surfaces. **99i:14042**

Kühnlein, Stefan *see* **Grunewald, Fritz, 99h:11044**

Lachaud, Gilles Klein polygons and geometric diagrams. (English summary) **99a:11086**

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(Mukai, Shigeru) *see* **Kondō, Shigeyuki, 99i:14042**

Nagnibeda, Tatiana *see* **Bacher, Roland; et al., 99c:05111**

Nebe, Gabriele Finite quaternionic matrix groups. (English summary) **99f:20085**

Nikishin, N. A. (*with* Skriganov, M. M.) On the distribution of algebraic numbers in parallelotopes. (Russian. Russian summary) **99g:11120**

Quebbemann, H.-G. A shadow identity and an application to isoduality. (English summary) **99m:11054**

Raĭgorodskiĭ, A. M. Defect of admissible balls and octahedra in a lattice, and systems of common representatives. (Russian. Russian summary) **99k:11105**

Scharlau, Rudolf (*with* Tiep, Pham Huu) Symplectic group lattices. (English summary) **99k:20010**

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11H16 Nonconvex bodies

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Morishita, Masanori A mean value theorem in adele geometry. **99a:11084**

Raĭgorodskiĭ, A. M. Defect of admissible balls and octahedra in a lattice, and systems of common representatives. (Russian. Russian summary) **99k:11105**

11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

Banihashemi, Amir H. (*with* Khandani, Amir K.) An inequality on the coding gain of densest lattice packings in successive dimensions. (English summary) **99k:11103**

Chabauty, Claude Le théorème de Minkowski-Hlawka. [The Minkowski-Hlawka theorem] (*see* **99f:00033**)

Conway, John H. (*with* Sloane, Neil J. A.) A note on optimal unimodular lattices. (English summary) **99k:11104**

Deza, Michel-Marie (*with* Grishukhin, V. P.) Erratum to: "Bounds on the covering radius of a lattice" [Mathematika **43** (1996), no. 1, 159–164; MR 98b:11074]. **99h:11073**

Grishukhin, V. P. *see* **Deza, Michel-Marie, 99h:11073**

Khandani, Amir K. *see* **Banihashemi, Amir H., 99k:11103**

Raĭgorodskiĭ, A. M. Defect of admissible balls and octahedra in a lattice, and systems of common representatives. (Russian. Russian summary) **99k:11105**

Rains, Eric M. (*with* Sloane, Neil J. A.) The shadow theory of modular and unimodular lattices. (English summary) **99i:11053**

Rieger, Georg Johann On the modular figure and Ford-spheres. (English summary) **99a:11082**

Sloane, Neil J. A. *see* **Rains, Eric M., 99i:11053** *and* **Conway, John H., 99k:11104**

Wahlgren, Kristian (*with* Wan, Zhe-Xian) Studies on the squaring construction. (English summary) **99e:11089**

Wan, Zhe-Xian *see* **Wahlgren, Kristian, 99e:11089**

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Bachoc, Christine (*with* Nebe, Gabriele) Extremal lattices of minimum 8 related to the Mathieu group M_{22}. (English summary) **99f:11084**

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Esmaeili, Morteza (*with* Gulliver, T. Aaron; Secord, Norman P.) Trellis complexity of linear block codes via atomic codewords. (English summary) **99b:94060**

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Gulliver, T. Aaron *see* **Esmaeili, Morteza; et al., 99b:94060**

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11H46 Products of linear forms

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11H50 Minima of forms

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11H55 Quadratic forms (reduction theory, extreme forms, etc.)

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11H56 Automorphism groups of lattices

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11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

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11J04 Homogeneous approximation to one number

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11J13 Simultaneous homogeneous approximation, linear forms

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11J17 Approximation by numbers from a fixed field

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11J20 Inhomogeneous linear forms

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11J54 Small fractional parts of polynomials and generalizations

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11J61 Approximation in non-Archimedean valuations

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11J70 Continued fractions and generalizations [see also 11A55, 11K50]

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11J71 Distribution modulo one [see also 11K06]

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11J72 Irrationality; linear independence over a field

Amdeberhan, Tewodros (*with* Zeilberger, Doron) q-Apéry irrationality proofs by q-WZ pairs. (English summary) **99d:11074**
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11J81 Transcendence (general theory)

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11J82 Measures of irrationality and of transcendence

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Roy, Damien (*with* Waldschmidt, Michel) Simultaneous approximation and algebraic independence. (English summary) **99a:11090**
(Shafarevich, Igor R.) *see* **Number theory, 99a:11088a**
Waldschmidt, Michel Sur la nature arithmétique des valeurs de fonctions modulaires. (French summary) [On the arithmetical nature of values of modular functions] **99g:11089**
— *see also* **Roy, Damien, 99a:11090**
Zeilberger, Doron *see* **Amdeberhan, Tewodros, 99d:11074**
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11J83 Metric theory

Bernik, V. I. (*with* Borbat, V. N.) Joint approximation of zero by values of integer-valued polynomials. (Russian) **99h:11077**
— (*with* Borbat, V. N.) Polynomials with overfalls of the values of coefficients, and A. Baker's conjecture. (Russian. English and Russian summaries) **99f:11089**
— (*with* Dickinson, Henrietta; Dodson, M. M.) A Khintchine-type version of Schmidt's theorem for planar curves. (English summary) **99e:11099**
Borbat, V. N. *see* **Bernik, V. I., 99f:11089** *and* **99h:11077**
Dickinson, Henrietta *see* **Bernik, V. I.; et al., 99e:11099**
Dodson, M. M. *see* **Bernik, V. I.; et al., 99e:11099**
Harman, Glyn ★ Metric number theory. **99k:11112**
Kleinbock, Dmitry Y. (*with* Margulis, Grigorii A.) Flows on homogeneous spaces and Diophantine approximation on manifolds. (English summary) **99j:11083**
Kovalevskaya, È. I. Simultaneous approximations and an effective estimate of measures of sets with given Diophantine properties. (Russian. English and Russian summaries) **99a:11089**
Levesley, Jeremy A general inhomogeneous Jarnik-Besicovitch theorem. (English summary) **99g:11091**
Margulis, Grigorii A. *see* **Kleinbock, Dmitry Y., 99j:11083**
Moshchevitin, N. G. On a theorem of Poincaré. (Russian) **99d:11075**
Rynne, Bryan P. Hausdorff dimension and generalized simultaneous Diophantine approximation. (English summary) **99c:11093**
— The Hausdorff dimension of sets arising from Diophantine approximation with a general error function. (English summary) **99f:11090**

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Bibiloni, Lluís *see* **Paradís, Jaume; et al., 99e:11011**
Elsner, Carsten A metric result concerning the approximation of real numbers by continued fractions. **99m:11075**
Paradís, Jaume (*with* Viader, Pelegrí; Bibiloni, Lluís) Approximation of quadratic irrationals and their Pierce expansions. **99e:11011**
Spencer, Donald C. Old memories and an old problem. (*see* **99g:00034**)
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11J85 Algebraic independence; Gel′fond's method

Denis, Laurent Indépendance algébrique de différents π. (English and French summaries) [Algebraic independence of π's] **99i:11059**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series and related results. (English summary) **99h:11078**
Gramain, François Quelques résultats d'indépendance algébrique. (English summary) [Some results of algebraic independence] **99h:11079**
Laurent, Michel New methods in algebraic independence. (English summary) **99e:11100**
— (*with* Roy, Damien) Criteria of algebraic independence with multiplicities and interpolation determinants. (English summary) **99h:11080**
Nesterenko, Yu. V. On the measure of algebraic independence of values of Ramanujan functions. (Russian) **99h:11081**
— Algebraic independence of π and e^{π}. **99k:11113**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 99h:11078**
Nishioka, Kumiko *see* **Duverney, Daniel; et al., 99h:11078**
Philippon, Patrice Indépendance algébrique et K-fonctions. [Algebraic independence and K-functions] **99f:11091**
Roy, Damien (*with* Waldschmidt, Michel) Simultaneous approximation and algebraic independence. (English summary) **99a:11090**
— *see also* **Laurent, Michel, 99h:11080**
Shidlovskiĭ, A. B. On the algebraic independence of values of E-functions. (Russian) **99h:11082**
Shiokawa, Iekata *see* **Duverney, Daniel; et al., 99h:11078**
Tanaka, Taka-Aki Algebraic independence results related to linear recurrences. **99m:11082**
Töpfer, Thomas Zero order estimates for functions satisfying generalized functional equations of Mahler type. **99d:11076**
Toshimitsu, Takeshi Strongly q-additive functions and algebraic independence. **99j:11084**
Waldschmidt, Michel *see* **Roy, Damien, 99a:11090**
Zhu, Yao Chen An arithmetic property of Mahler's series. (English summary) **99f:11092**
— Establishing algebraic independence by an approximation method. (Chinese. English and Chinese summaries) **99k:11114**

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Chirskiĭ, V. G. On the algebraic independence of values of functions satisfying systems of functional equations. (Russian) **99h:11083**
Compoint, E. E-fonctions hypergéométriques et groupes de Galois orthogonaux. (French summary) [Hypergeometric E-functions and orthogonal Galois groups] **99d:12003**
Fel′dman, N. I. (*with* Nesterenko, Yu. V.) Transcendental numbers. **99a:11088b**
(Koblitz, Neal) *see* **Number theory, 99a:11088a**
Nesterenko, Yu. V. *see* **Fel′dman, N. I., 99a:11088b**
(Parshin, A. N.) *see* **Number theory, 99a:11088a**
(Shafarevich, Igor R.) *see* **Number theory, 99a:11088a**
Vasil′ev, K. G. On the algebraic independence of the periods of Abelian integrals. (Russian. Russian summary) **99c:11094**
Waldschmidt, Michel Sur la nature arithmétique des valeurs de fonctions modulaires. (French summary) [On the arithmetical nature of values of modular functions] **99g:11089**
— From simultaneous approximations to algebraic independence. (English summary) **99k:11111**
Yanchenko, A. Ya. On the measure of algebraic independence of values of derivatives of a modular function (the p-adic case). (Russian. Russian summary) **99e:11103**
Zhu, Yao Chen Linear independence over a number field. (Chinese. English and Chinese summaries) **99e:11097**

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11J86 Linear forms in logarithms; Baker's method

Baker, Alan Effective methods in the theory of numbers [MR **54** #10162]. (*see* **99b:00010**)
— Effective methods in Diophantine problems [MR **47** #3324]. (*see* **99b:00010**)
— Effective methods in Diophantine problems. II [MR **49** #2571]. (*see* **99b:00010**)
— Effective methods in the theory of numbers/Diophantine problems [MR **54** #10162]. (*see* **99b:00010**)
— Logarithmic forms and the *abc*-conjecture. **99e:11101**
Bugeaud, Yann Bornes effectives pour les solutions des équations en S-unités et des équations de Thue-Mahler. (English summary) [Effective bounds for the solutions of S-unit and Thue-Mahler equations] **99e:11102**
(Laurent, Michel) *see* **Waldschmidt, Michel**, **99a:11092**
Mignotte, Maurice A corollary to a theorem of Laurent-Mignotte-Nesterenko. **99i:11060**
Samaké, Karim Les zéros de certaines suites récurrentes linéaires. (English and French summaries) [The zeros of certain linear recurrent sequences] **99a:11091**
Waldschmidt, Michel ★ Linear independence of logarithms of algebraic numbers. **99a:11092**
Yu, Kunrui p-adic logarithmic forms and group varieties. I. **99g:11092**

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Bilu, Yuri F. Integral points of Galois covers. **99j:11074**
Brindza, Béla (*with* Liptai, Kálmán; Szalay, László) On products of the terms of linear recurrences. (English summary) **99e:11015**
Bugeaud, Yann On the greatest prime factor of $(ab+1)(bc+1)(ca+1)$. **99k:11141**
— Sur le plus grand facteur premier de $ax^m + by^n$. (English and French summaries) [On the greatest prime factor of $ax^m + by^n$] **99j:11033**
Fel'dman, N. I. (*with* Nesterenko, Yu. V.) Transcendental numbers. **99a:11088b**
Győry, Kálmán Recent bounds for the solutions of decomposable form equations. **99e:11032**
Hajdu, L. On a Diophantine equation concerning the number of integer points in special domains. (English summary) **99a:11031**
Kiss, Péter An approximation problem concerning linear recurrences. (English summary) **99d:11089**
(Koblitz, Neal) *see* **Number theory**, **99a:11088a**
Lesage, Jean-Luc Différence entre puissances et carrés d'entiers. (English summary) [Difference between powers and squares of integers] **99j:11031**
Liptai, Kálmán *see* **Brindza, Béla; et al.**, **99e:11015**
Luca, Florian Products of factorials in Smarandache type expressions. **99g:11040**
— Perfect powers in Smarandache type expressions. **99g:11041**
— Perfect powers in Smarandache type expressions. **99c:11035**
— Products of factorials in Smarandache type expressions. **99d:11029**
Mignotte, Maurice (*with* Roy, Yves) Lower bounds for Catalan's equation. (English summary) **99g:11042**
— Complete resolution of some families of Diophantine equations. (English summary) **99d:11026**
Nesterenko, Yu. V. *see* **Fel'dman, N. I.**, **99a:11088b**
(Parshin, A. N.) *see* **Number theory**, **99a:11088a**
Pethő, Attila (*with* Tichy, Robert F.) On two-parametric quartic families of Diophantine problems. (English summary) **99e:11031**
Pintér, Ákos A note on the equation $1^k + 2^k + \cdots + (x-1)^k = y^m$. **99a:11040**
Roy, Yves *see* **Mignotte, Maurice**, **99g:11042**
Saradha, N. (*with* Shorey, T. N.) The equation $(x^n - 1)/(x-1) = y^q$ with x square. **99h:11037**
(Shafarevich, Igor R.) *see* **Number theory**, **99a:11088a**
Shorey, T. N. Some applications of Diophantine approximations to Diophantine equations. **99e:11034**
— *see also* **Saradha, N.**, **99h:11037**
Szalay, László *see* **Brindza, Béla; et al.**, **99e:11015**
Terai, Nobuhiro A note on certain exponential Diophantine equations. **99d:11032**
Tichy, Robert F. *see* **Pethő, Attila**, **99e:11031**
Voutier, Paul M. Primitive divisors of Lucas and Lehmer sequences. III. (English summary) **99b:11027**
de Weger, Benjamin M. M. S-integral solutions to a Weierstrass equation. (English and French summaries) **99d:11027**
— On the fourth-powerfree part of $x^2 + 2$. (English summary) **99k:11045**

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11J89 Transcendence theory of elliptic and abelian functions

Vasil'ev, K. G. On the algebraic independence of the periods of Abelian integrals. (Russian. Russian summary) **99c:11094**
Yanchenko, A. Ya. On the measure of algebraic independence of values of derivatives of a modular function (the p-adic case). (Russian. Russian summary) **99e:11103**

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Philippon, Patrice Indépendance algébrique et K-fonctions. [Algebraic independence and K-functions] **99f:11091**
Zudilin, V. V. Recurrent sequences and the measure of irrationality of values of elliptic integrals. (Russian) **99c:11092**

11J91 Transcendence theory of other special functions

Bertrand, Daniel Theta functions and transcendence. (English summary) **99b:11080**
Chirskiĭ, V. G. On the algebraic independence of values of functions satisfying systems of functional equations. (Russian) **99h:11083**
Denis, Laurent Valeurs transcendantes des fonctions de Bessel-Carlitz. [Transcendental values of Bessel-Carlitz functions] **99f:11093**
Shidlovskiĭ, A. B. On the linear independence of values of E-functions. (Russian. Russian summary) **99f:11094**
Zudilin, V. V. On the algebraic structure of function matrices of a special form. (Russian. Russian summary) **99d:11077**

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Bézivin, Jean-Paul Sur les propriétés arithmétiques d'une fonction entière. (English summary) [The arithmetical properties of an entire function] **99f:11087**
Chirskiĭ, V. G. On the arithmetic properties of some series. (Russian) **99c:11086**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series and related results. (English summary) **99h:11078**
Ivankov, P. L. On the linear independence of some numbers. (Russian. Russian summary) **99h:11076**
Nesterenko, Yu. V. On the measure of algebraic independence of values of Ramanujan functions. (Russian) **99h:11081**
— Algebraic independence of π and e^π. **99k:11113**
Nishioka, Keiji *see* **Duverney, Daniel; et al.**, **99h:11078**
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Richardson, Daniel How to recognize zero. (English summary) **99e:11153**
Shidlovskiĭ, A. B. On the algebraic independence of values of E-functions. (Russian) **99h:11082**
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Tanaka, Taka-Aki Algebraic independence results related to linear recurrences. **99m:11082**
Waldschmidt, Michel Sur la nature arithmétique des valeurs de fonctions modulaires. (French summary) [On the arithmetical nature of values of modular functions] **99g:11089**
Zudilin, V. V. On the measure of linear and algebraic independence of values of entire hypergeometric functions. (Russian) **99f:11088**

11J99 None of the above, but in this section

Allouche, Jean-Paul (*with* Zamboni, Luca Q.) Algebraic irrational binary numbers cannot be fixed points of non-trivial constant length or primitive morphisms. (English summary) **99e:11104**
Lasjaunias, Alain Continued fractions for algebraic formal power series over a finite base field. (English summary) **99k:11115**
Nakamaye, Michael Intersection theory and Diophantine approximation. **99m:11083**
Sekigawa, Hiroshi Zero testing of algebraic numbers by an extended Mahler measure. (Japanese) **99f:11095**
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Items with secondary classifications in 11J99

Amoroso, Francesco Upper bounds for the resultant and Diophantine applications. (English summary) **99g:11030**
Beals, Robert M. (*with* Thakur, Dinesh S.) Computational classification of numbers and algebraic properties. **99g:11028**
Beauzamy, Bernard Extremal products in Bombieri's norm. (English summary) **99a:11028**
Bombieri, Enrico (*with* Cohen, Paula Beazley) Siegel's lemma, Padé approximations and Jacobians. **99k:11092**
Cohen, Paula Beazley *see* **Bombieri, Enrico**, **99k:11092**
Noguchi, Junjiro Recent topics in the theory of holomorphic curves. (English summary) **99a:32034**
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11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Deshouillers, Jean-Marc On some connections between probability and number theory. (English summary) **99c:11095**

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11K06 General theory of distribution modulo 1 [see also 11J71]

Akiyama, Shigeki A remark on almost uniform distribution modulo 1. **99b:11081**
Hill, Christopher Brooks Uniform distribution modulo one on subsequences. (English summary) **99j:11085**
Hlawka, Edmund Gleichverteilung und Simulation. (German summary) [Uniform distribution and simulation] **99h:11084**
— ★ Statistik und Gleichverteilung. (German) [Statistics and uniform distribution] **99g:11093**
Lesigne, Emmanuel Loi des grands nombres pour des sommes de Riesz-Raikov multidimensionnelles. (English summary) [Law of large numbers for multidimensional Riesz-Raĭkov processes] **99c:11096**
Oskolkov, V. A. (*with* Sevast'yanov, E. A.) On the Hardy-Littlewood problem. (Russian. Russian summary) **99k:11116**
Sevast'yanov, E. A. *see* **Oskolkov, V. A., 99k:11116**

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Alessandri, Pascal (*with* Berthé, Valérie) Three distance theorems and combinatorics on words. (English summary) **99i:11056**
Baxa, Christoph On the discrepancy of the sequence $(\alpha\sqrt{n})$. II. (English summary) **99f:11096**
Berthé, Valérie *see* **Alessandri, Pascal, 99i:11056**
Devroye, Luc (*with* Goudjil, Amar) A study of random Weyl trees. (English summary) **99h:68034**
Goudjil, Amar *see* **Devroye, Luc, 99h:68034**
Kra, Bryna A generalization of Furstenberg's Diophantine theorem. (English summary) **99j:11079**
Lacroix, Y. On strong uniform distribution. II. The infinite-dimensional case. (English summary) **99c:11104**
Mori, Makoto Low discrepancy sequences generated by piecewise linear maps. (English summary) **99f:11097**
Nair, Radhakrishnan (*with* Velani, Sanju L.) Glasner sets and polynomials in primes. (English summary) **99a:11095**
Pavlov, A. I. Meromorphic continuation of Dirichlet series connected with the distribution of numbers modulo 1. (Russian) **99f:11114**
Velani, Sanju L. *see* **Nair, Radhakrishnan, 99a:11095**
Winkler, Reinhard Distribution preserving sequences of maps and almost constant sequences on finite sets. (English summary) **99h:11088**
Wong, K. C. On the distribution of αp^k modulo 1. **99b:11084**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Ahn, Youngho (*with* Choe, Geon Ho) On normal numbers mod 2. **99b:11082**
Bertrand-Mathis, Anne Sur les nombres normaux liés à des bases non équivalentes. (English and French summaries) [Normal numbers associated with nonequivalent bases] **99c:11097**
Choe, Geon Ho *see* **Ahn, Youngho, 99b:11082**
Cooper, Curtis (*with* Kennedy, Robert E.; Renberg, Milo) On certain sums of functions of base b expansions. **99k:11117**
Hollander, Michael Israel Greedy numeration systems and regularity. (English summary) **99d:11078**
Kennedy, Robert E. *see* **Cooper, Curtis; et al., 99k:11117**
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Items with secondary classifications in 11K16

Bukor, Jozsef (*with* Erdős, Paul[1]; Šalát, Tibor; Tóth, János T.) Remarks on the (R)-density of sets of numbers. II. (English summary) **99e:11013**
Chen, Yong-Gao (*with* Ji, Chun Gang) The number of multinomial coefficients not divided by a prime. (English summary) **99j:11020**
Erdős, Paul[1] *see* **Bukor, Jozsef; et al., 99e:11013**
Faivre, C. On decimal and continued fraction expansions of a real number. **99c:11102**
Ji, Chun Gang *see* **Chen, Yong-Gao, 99j:11020**
Kenyon, Richard (*with* Vershik, Anatoliĭ Moiseevich) Arithmetic construction of sofic partitions of hyperbolic toral automorphisms. (English summary) **99g:58092**
Manstavičius, Eugenijus Probabilistic theory of additive functions related to systems of numeration. (English summary) **99j:11088**
Matsumoto, Kengo Interpolated Cuntz algebras from β-expansions of real numbers. (Japanese) (*see* **99d:46001**)
Ninomiya, Syoiti On the discrepancy of the β-adic van der Corput sequence. (English summary) **99i:11061**
Šalát, Tibor *see* **Bukor, Jozsef; et al., 99e:11013**
Tichy, Robert F. Diophantine properties of digital expansions. (English summary) **99g:11016**
Tóth, János T. *see* **Bukor, Jozsef; et al., 99e:11013**
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11K31 Special sequences

Akiyama, Shigeki Almost uniform distribution modulo 1 and the distribution of primes. (English summary) **99b:11083**
Baxa, Christoph (*with* Schoissengeier, J.) On the discrepancy of the sequence $(\alpha\sqrt{n})$. **99k:11118**
Mauduit, Christian (*with* Sárközy, András) On finite pseudorandom binary sequences. II. The Champernowne, Rudin-Shapiro, and Thue-Morse sequences, a further construction. (English summary) **99m:11084**
Ninomiya, Syoiti On the discrepancy of the β-adic van der Corput sequence. (English summary) **99i:11061**
Rittaud, Benoît Équidistribution presque partout modulo 1 de suites oscillantes. (English and French summaries) [Uniform distribution almost everywhere modulo 1 of some oscillating sequences] **99k:11119**
Sárközy, András *see* **Mauduit, Christian, 99m:11084**
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Slijepčević, Siniša A note on initial digits of recurrence sequences.
Wong, K. C. On the distribution of αp^k modulo 1. **99b:11084**
Zhai, Wen Guang A note on a result of Abercrombie. **99e:11105**

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Grabner, Peter J. (*with* Strauch, Oto; Tichy, Robert F.) Maldistribution in higher dimensions. (English summary) **99a:11094**
Konyagin, Sergeĭ On the recurrence of an integral of an odd conditionally periodic function. (Russian. Russian summary) **99f:11098**
Larcher, Gerhard Digital point sets: analysis and application. **99m:11085**
— A bound for the discrepancy of digital nets and its application to the analysis of certain pseudo-random number generators. **99j:11086**
Niederreiter, Harald (*with* Xing, Chaoping) Nets, (t, s)-sequences, and algebraic geometry. **99k:11121**
Oskolkov, V. A. (*with* Sevast'yanov, E. A.) On the Hardy-Littlewood problem. (Russian. Russian summary) **99k:11116**
Schoissengeier, J. A metrical result on the discrepancy of $(n\alpha)$. **99j:11087**
Sevast'yanov, E. A. *see* **Oskolkov, V. A., 99k:11116**
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Živković, Miodrag The number of primes $\sum_{i=1}^{n}(-1)^{n-i}i!$ is finite. (English summary) **99c:11163**

11K36 Well-distributed sequences and other variations

Drmota, Michael q-additive functions and well distribution. (English summary) **99e:11106**
Paštéka, Milan Submeasures and uniform distribution on Dedekind domains. (English summary) **99c:11098**
Talalyan, F. A. On the asymptotic distribution of sequences. (Russian. Armenian summary) **99h:11085**

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Akiyama, Shigeki A remark on almost uniform distribution modulo 1. **99b:11081**
Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. I. Distribution in residue classes. (English summary) **99e:11127**
van Hameren, André (*with* Kleiss, Ronald; Hoogland, Jiri) Gaussian limits for discrepancies. I. Asymptotic results. (English summary) **99k:65009**
Hoogland, Jiri *see* **van Hameren, André; et al., 99k:65009**
Kleiss, Ronald *see* **van Hameren, André; et al., 99k:65009**
Lindström, Bernt Well distribution of Sidon sets in residue classes. (English summary) **99c:11021**
Mauduit, Christian (*with* Sárközy, András) On finite pseudorandom binary sequences. I. Measure of pseudorandomness, the Legendre symbol. **99g:11095**
— *see also* **Erdős, Paul[1]; et al., 99e:11127**
Ninomiya, Syoiti On the discrepancy of the β-adic van der Corput sequence. (English summary) **99h:11087**
Sárközy, András *see* **Erdős, Paul[1]; et al., 99e:11127** *and* **Mauduit, Christian, 99g:11095**
Winkler, Reinhard On the distribution behaviour of sequences. (English summary) **99a:28012**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Baxa, Christoph On the discrepancy of the sequence $(\alpha\sqrt{n})$. II. (English summary) **99f:11096**
Beck, József (*with* Chen, W. W. L.) Irregularities of point distribution relative to convex polygons. III. **99a:11093**
Chen, W. W. L. (*with* Lev, Vsevolod F.) Discrepancy of weighted matrix nets. **99d:11079**
— *see also* **Beck, József, 99a:11093**
Faure, Henri Discrepancy lower bounds for special quasi-random sequences. (English summary) **99d:11080**
Grabner, Peter J. (*with* Strauch, Oto; Tichy, Robert F.) Maldistribution in higher dimensions. (English summary) **99a:11094**
Grozdanov, V. On the quadratic discrepancy of one class of two-dimensional nets. (English summary) **99k:11120**
Harman, Glyn On the Erdős-Turán inequality for balls. **99h:11086**
Larcher, Gerhard Digital point sets: analysis and application. **99m:11085**
— A bound for the discrepancy of digital nets and its application to the analysis of certain pseudo-random number generators. **99j:11086**
Leeb, Hannes Weak limits for the diaphony. (English summary) **99i:11062**
Lev, Vsevolod F. *see* **Chen, W. W. L., 99d:11079**
Mori, Makoto Low discrepancy sequences generated by piecewise linear maps. (English summary) **99f:11097**
Nair, Radhakrishnan (*with* Velani, Sanju L.) Glasner sets and polynomials in primes. (English summary) **99a:11095**
Niederreiter, Harald (*with* Xing, Chaoping) The algebraic-geometry approach to low-discrepancy sequences. (English summary) **99d:11081**
— (*with* Xing, Chaoping) Nets, (t, s)-sequences, and algebraic geometry. **99k:11121**
Ninomiya, Syoiti Constructing low-discrepancy sequences by using β-adic transformations. (English summary) **99d:11082**
— On the discrepancy of the β-adic van der Corput sequence. (English summary) **99h:11087**
Schoissengeier, J. A metrical result on the discrepancy of $(n\alpha)$. **99j:11087**
Strauch, Oto *see* **Grabner, Peter J.; et al., 99a:11094**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 99a:11094**
Velani, Sanju L. *see* **Nair, Radhakrishnan, 99a:11095**
Winkler, Reinhard Sets of block structure and discrepancy estimates. (English and French summaries) **99c:11099**

Xing, Chaoping *see* **Niederreiter, Harald, 99d:11081** *and* **99k:11121**
Zinterhof, Peter On optimal liftings of sequences. **99g:11094**

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Baggett, Lawrence W. (*with* Medina, Herbert A.; Merrill, Kathy D.) Cohomology of polynomials under an irrational rotation. (English summary) **99a:28013**
Baxa, Christoph (*with* Schoissengeier, J.) On the discrepancy of the sequence $(\alpha\sqrt{n})$. **99k:11118**
Beck, József Diophantine approximation and quadratic fields. **99k:11108**
Eichenauer-Herrmann, Jürgen (*with* Niederreiter, Harald) Lower bounds for the discrepancy of triples of inversive congruential pseudorandom numbers with power of two modulus. (English summary) **99m:11086**
van Hameren, André (*with* Kleiss, Ronald; Hoogland, Jiri) Gaussian limits for discrepancies. I. Asymptotic results. (English summary) **99k:65009**
Harman, Glyn ★ Metric number theory. **99k:11112**
Hlawka, Edmund Gleichverteilung und Simulation. (German summary) [Uniform distribution and simulation] **99h:11084**
Hoogland, Jiri *see* **van Hameren, André; et al., 99k:65009**
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Knopfmacher, Arnold (*with* Ridley, J. N.; Mullen, Gary L.) Nets and sequences obtained from irreducible polynomials over finite fields. (English summary) **99m:11142**
Larcher, Gerhard On the distribution of digital sequences. (English summary) **99d:11083**
Medina, Herbert A. *see* **Baggett, Lawrence W.; et al., 99a:28013**
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Niederreiter, Harald *see* **Eichenauer-Herrmann, Jürgen, 99m:11086**
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Tuffin, Bruno Comments on: "On the use of low discrepancy sequences in Monte Carlo methods" [Monte Carlo Methods Appl. **2** (1996), no. 4, 295–320; MR 97m:65018]. (English summary) **99d:65019**

11K41 Continuous, p-adic and abstract analogues

Khrennikov, Andrei p-adic analogues of the law of large numbers and the central limit theorem. **99b:11085**
Konyagin, Sergei On the recurrence of an integral of an odd conditionally periodic function. (Russian. Russian summary) **99f:11098**
Larcher, Gerhard On the distribution of digital sequences. (English summary) **99d:11083**
Winkler, Reinhard Distribution preserving sequences of maps and almost constant sequences on finite sets. (English summary) **99h:11088**

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Berend, Daniel (*with* Harmse, Jørgen E.) On some arithmetical properties of middle binomial coefficients. **99a:11018**
Chistyakov, D. V. Fractal geometry of images of continuous embeddings of p-adic numbers and solenoids into Euclidean spaces. (Russian. English and Russian summaries) **99c:28023**
Grabner, Peter J. (*with* Tichy, Robert F.) Equidistribution and Brownian motion on the Sierpiński gasket. (English summary) **99g:60007**
Harmse, Jørgen E. *see* **Berend, Daniel, 99a:11018**
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Lesigne, Emmanuel Loi des grands nombres pour des sommes de Riesz-Raikov multidimensionnelles. (English summary) [Law of large numbers for multidimensional Riesz-Raĭkov processes] **99c:11096**
Tichy, Robert F. *see* **Grabner, Peter J., 99g:60007**
Wirsching, Günther J. ★ The dynamical system generated by the $3n+1$ function. **99g:11027**

11K45 Pseudo-random numbers; Monte Carlo methods

Brennan, J. J. (*with* Geist, Bruce) Analysis of iterated modular exponentiation: the orbits of $x^n \bmod N$. (English summary) **99b:11086**
Choe, Geon Ho (*with* Kim, Chihurn; Kim, Dong Han) Applications of ergodic theory to pseudorandom numbers. (English summary) **99d:11084**
Dayantis, Jean Smoluchowski et les tests de fiabilité des générateurs de nombres pseudo-aléatoires. (English and French summaries) [Smoluchowski and reliability tests for pseudorandom-number generators] **99c:11100**
Devroye, Luc Binary search trees based on Weyl and Lehmer sequences. **99k:11122**
Eichenauer-Herrmann, Jürgen (*with* Herrmann, Eva; Wegenkittl, Stefan) A survey of quadratic and inversive congruential pseudorandom numbers. (English summary) **99d:11085**
— (*with* Niederreiter, Harald) Lower bounds for the discrepancy of triples of inversive congruential pseudorandom numbers with power of two modulus. (English summary) **99m:11086**
Emmerich, Frank Equidistribution properties of compound inversive pseudorandom vectors. (English summary) **99b:11087**
Fushimi, Masanori Definition of a finite random number sequence and pseudorandom number generation. (Japanese) (*see* **99a:00044**)
Geist, Bruce *see* **Brennan, J. J., 99b:11086**
Herrmann, Eva *see* **Eichenauer-Herrmann, Jürgen; et al., 99d:11085**
Kim, Chihurn *see* **Choe, Geon Ho; et al., 99d:11084**
Kim, Dong Han *see* **Choe, Geon Ho; et al., 99d:11084**
L'Ecuyer, Pierre Tables of linear congruential generators of different sizes and good lattice structure. (English summary) **99c:11101**
Mauduit, Christian (*with* Sárközy, András) On finite pseudorandom binary sequences. I. Measure of pseudorandomness, the Legendre symbol. **99g:11095**
Niederreiter, Harald *see* **Eichenauer-Herrmann, Jürgen, 99m:11086**
Pincus, Steve (*with* Singer, Burton H.) A recipe for randomness. (English summary) **99d:11086**
Sárközy, András *see* **Mauduit, Christian, 99g:11095**
Sethumadhavan, M. On the discrepancy of pseudorandom numbers generated by quadratic method. (English summary) **99m:11087**
Singer, Burton H. *see* **Pincus, Steve, 99d:11086**
Smart, Nigel P. *see* **Woodcock, Christopher F., 99k:11123**
Tezuka, Shu Weyl sequences and van der Corput sequences. (Japanese) (*see* **99f:65007**)
Wegenkittl, Stefan Are there hyperbolas in the scatter plots of inversive congruential pseudorandom numbers? (English summary) **99g:11096**
— *see also* **Eichenauer-Herrmann, Jürgen; et al., 99d:11085**
Woodcock, Christopher F. (*with* Smart, Nigel P.) p-adic chaos and random number generation. (English summary) **99k:11123**

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Anshel, Michael (*with* Goldfeld, Dorian) Zeta functions, one-way functions, and pseudorandom number generators. **99c:11109**
Chen, Xi Ru (*with* Fang, Kai-Tai; Zhang, Run Chu; Zhu, Li-Xing) Asymptotics in addition of pseudo-random sequences. (English summary) **99a:65018**
Fang, Kai-Tai *see* **Chen, Xi Ru; et al., 99a:65018**
Gentle, James E. ★ Random number generation and Monte Carlo methods. (English summary) **99j:65009**
Goldfeld, Dorian *see* **Anshel, Michael, 99c:11109**
Hellekalek, Peter *see* **L'Ecuyer, Pierre, 99m:65014**
Kanagawa, Shuya *see* **Tanaka, Satoru, (99f:65007)**
Klinger, B. Numerical integration of singular integrands using low-discrepancy sequences. (English summary) **99b:65024**
Larcher, Gerhard Digital point sets: analysis and application. **99m:11085**
— A bound for the discrepancy of digital nets and its application to the analysis of certain pseudo-random number generators. **99j:11086**
L'Ecuyer, Pierre (*with* Hellekalek, Peter) Random number generators: selection criteria and testing. **99m:65014**
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Schmid, Wolfgang Ch. Shift-nets: a new class of binary digital (t, m, s)-nets. (English summary) **99d:65023**
Tanaka, Satoru (*with* Kanagawa, Shuya) The accuracy of testing methods for pseudorandom numbers and approximation methods for SDEs. (Japanese) (*see* **99f:65007**)
Zhang, Run Chu *see* **Chen, Xi Ru; et al., 99a:65018**
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11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Aliev, Iskander (*with* Kanemitsu, Shigeru; Schinzel, Andrzej) On the metric theory of continued fractions. **99d:11087**
Dajani, Karma (*with* Kraaikamp, Cor) A note on the approximation by continued fractions under an extra condition. (English summary) **99f:11099**
— (*with* Kraaikamp, Cor) A Gauss-Kusmin theorem for optimal continued fractions. (English summary) **99h:11089**
Degeratu, Laurenţia Some metrical results for the nearest integer continued fraction. (English and Romanian summaries) **99e:11107**
Faivre, C. On decimal and continued fraction expansions of a real number. **99c:11102**
— A central limit theorem related to decimal and continued fraction expansion. (English summary) **99m:11088**
Ganatsiou, Chryssa On G-continued fractions with identically distributed rests. **99g:11097**
Kanemitsu, Shigeru *see* **Aliev, Iskander; et al., 99d:11087**
Kraaikamp, Cor *see* **Dajani, Karma, 99f:11099** *and* **99h:11089**
Nair, Radhakrishnan On metric Diophantine approximation and subsequence ergodic theory. (English summary) **99b:11088**
— On the metric theory of the nearest integer continued fraction expansion. (English summary) **99d:11088**
Nakada, Hitoshi Dynamics of complex continued fractions and geodesics over H^3. (English summary) **99c:11103**
Schinzel, Andrzej *see* **Aliev, Iskander; et al., 99d:11087**

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Elsner, Carsten A metric result concerning the approximation of real numbers by continued fractions. **99m:11075**
Harman, Glyn ★ Metric number theory. **99k:11112**
Kraaikamp, Cor (*with* Meester, Ronald) Convergence of continued fraction type algorithms and generators. (English summary) **99c:11087**
Meester, Ronald *see* **Kraaikamp, Cor, 99c:11087**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Chothi, V. (*with* Everest, G. R.; Ward, Thomas B.) S-integer dynamical systems: periodic points. (English summary) **99b:11089**
Everest, G. R. *see* **Chothi, V.; et al., 99b:11089**
Galambos, János Further metric results on series expansions. (English summary) **99e:11108**
Grabner, Peter J. (*with* Knopfmacher, Arnold) Metric properties of Engel series expansions of Laurent series. (English summary) **99m:11089**
Hill, Richard Michael (*with* Velani, Sanju L.) The Jarník-Besicovitch theorem for geometrically finite Kleinian groups. **99f:11100**

Klimek, Sławomir (*with* Leśniewski, Andrzej) Ergodic theorems for quantum Kronecker flows. (English summary) **99b:11090**
Knopfmacher, Arnold *see* **Grabner, Peter J., 99m:11089**
Lacroix, Y. On strong uniform distribution. II. The infinite-dimensional case. (English summary) **99c:11104**
Lalley, Steven P. Random series in powers of algebraic integers: Hausdorff dimension of the limit distribution. (English summary) **99k:11124**
Leśniewski, Andrzej *see* **Klimek, Sławomir, 99b:11090**
Velani, Sanju L. *see* **Hill, Richard Michael, 99f:11100**
Ward, Thomas B. *see* **Chothi, V.; et al., 99b:11089**

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Benedek, Agnes (*with* Panzone, Rafael) On the tame dragon. (English summary) **99c:11010**
Chamizo, Fernando (*with* Córdoba, Antonio) Riemann fractals: numbers and figures. (Spanish)
Córdoba, Antonio *see* **Chamizo, Fernando**
Dajani, Karma (*with* Kraaikamp, Cor; Solomyak, Boris) The natural extension of the β-transformation. **99d:28029**
Falconer, Kenneth J. ★ Techniques in fractal geometry. (English summary) **99f:28013**
Harman, Glyn ★ Metric number theory. **99k:11112**
Heinrich, Lothar Poisson approximation for the number of large digits of inhomogeneous f-expansions. (English summary) **99f:60045**
Hill, Richard Michael (*with* Velani, Sanju L.) Metric Diophantine approximation in Julia sets of expanding rational maps. (English summary) **99b:58143**
Kraaikamp, Cor *see* **Dajani, Karma; et al., 99d:28029**
Panzone, Rafael *see* **Benedek, Agnes, 99c:11010**
Rynne, Bryan P. Hausdorff dimension and generalized simultaneous Diophantine approximation. (English summary) **99c:11093**
Solomyak, Boris *see* **Dajani, Karma; et al., 99d:28029**
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Volný, Dalibor BV coboundaries over irrational rotations. (English summary) **99b:28017**
Ward, Thomas B. Almost all S-integer dynamical systems have many periodic points. (English summary) **99k:58152**

11K60 Diophantine approximation [see also 11Jxx]

Kiss, Péter An approximation problem concerning linear recurrences. (English summary) **99d:11089**

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Beck, József Diophantine approximation and quadratic fields. **99k:11108**
Hill, Richard Michael (*with* Velani, Sanju L.) The Jarník-Besicovitch theorem for geometrically finite Kleinian groups. **99f:11100**
Katayama, Yoshikazu (*with* Matsumoto, Kengo; Watatani, Yasuo) Simple C^*-algebras arising from β-expansion of real numbers. (English summary) **99m:46136**
Matsumoto, Kengo *see* **Katayama, Yoshikazu; et al., 99m:46136**
Naito, Koichiro Lower estimates of dimensions for quasi-periodic orbits. **99j:58187**
Velani, Sanju L. *see* **Hill, Richard Michael, 99f:11100**
Watatani, Yasuo *see* **Katayama, Yoshikazu; et al., 99m:46136**

11K65 Arithmetic functions [see also 11Nxx]

Bareikis, G. Multiplicative functions and stochastic processes. (English summary) **99m:11090**
Bekelis, D. Convolutions of the Poisson laws in number theory. (English summary) **99k:11125**
Elliott, P. D. T. A. Shifted primes and Kubilius models. (English summary) **99m:11091**
Fehér, János On generalized q-multiplicative functions. (English summary) **99d:11090**
Indlekofer, Karl-Heinz (*with* Timofeev, Nikolai M.) Estimates for multiplicative functions on the set of shifted primes. (English summary) **99k:11126**
— (*with* Kátai, Imre) On asymptotically correlated q-multiplicative functions. (English summary) **99m:11092**
Kátai, Imre *see* **Indlekofer, Karl-Heinz, 99m:11092**
Kubilius, Jonas On some inequalities in the probabilistic number theory. (English summary) **99k:11127**
Manstavičius, Eugenijus A proof of the Erdős arcsine law. (English summary) **99f:11101**
— Probabilistic theory of additive functions related to systems of numeration. (English summary) **99j:11088**
Mauduit, Christian (*with* Sárközy, András) On the arithmetic structure of the integers whose sum of digits is fixed. **99a:11096**
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Schwarz, Wolfgang Karl Some aspects of the development of probabilistic number theory. (English summary) **99h:11090**
Stepanauskas, Gediminas Mean values of multiplicative functions on shifted numbers. (Russian. Lithuanian summary) **99f:11102**
Timofeev, Nikolai M. *see* **Indlekofer, Karl-Heinz, 99k:11126**

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Deshouillers, Jean-Marc (*with* Hennecart, François; Landreau, Bernard) Sums of powers: an arithmetic refinement to the probabilistic model of Erdős and Rényi. (English summary) **99h:11114**
Faĭnleĭb, A. S. (*with* Khudoleeva, O. I.) On the distribution of elements of normed free semigroups. (Russian. English and Uzbek summaries) **99h:11105**
— *see also* **Tulyaganova, M. I., 99f:11123**
Hennecart, François *see* **Deshouillers, Jean-Marc; et al., 99h:11114**
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Laurinčikas, Antanas On limit distribution of the Matsumoto zeta function. II. (Russian. Lithuanian summary) **99c:11113**
— A limit theorem in the theory of finite abelian groups. (English summary) **99m:11101**
Manstavičius, Eugenijus The law of the iterated logarithm for random permutations. (Russian. Lithuanian summary) **99m:60054**
Nakajima, Masumi Densities for sums of independent random variables and their applications to the value distributions of $\Delta(x)$, $P(x)$ and $\zeta(s)$. (English summary) **99m:11110**
Tulyaganov, S. T. Summation of values of multiplicative functions. I. (Russian. English and Uzbek summaries) **99k:11146a**
— Summation of values of multiplicative functions. II. (Russian. English and Uzbek summaries) **99k:11146b**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) On the regular case of the Halasz theorem. (Russian. English and Uzbek summaries) **99f:11123**

11K70 Harmonic analysis and almost periodicity

Bézivin, Jean-Paul Sur les suites presque-périodiques. (English summary) [On almost periodic sequences] **99d:11091**

Items with secondary classifications in 11K70

de Bièvre, Stephan (*with* Forni, Giovanni) On the growth of averaged Weyl sums for rigid rotations. (English summary) **99e:11114**
Forni, Giovanni *see* **de Bièvre, Stephan, 99e:11114**
Schwarz, Wolfgang Karl Some aspects of the development of probabilistic number theory. (English summary) **99h:11090**

11K99 None of the above, but in this section

Davis, Sandra (*with* Duke, William; Sun, Xiao Dong[1]) Probabilistic Galois theory of reciprocal polynomials. **99i:11063**
Duke, William *see* **Davis, Sandra; et al., 99i:11063**
Sachkov, V. N. Probability distributions on a linear vector space over a Galois field and on sets of permutations. (Russian. Russian summary) **99c:11105**
Sun, Xiao Dong[1] *see* **Davis, Sandra; et al., 99i:11063**
Ward, Thomas B. A family of Markov shifts (almost) classified by periodic points. (English summary) **99j:11089**

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Arratia, Richard On the central role of scale invariant Poisson processes on $(0, \infty)$. (English summary) **99i:60098**
Calkin, Neil J. (*with* Cameron, Peter J.) Almost odd random sum-free sets. (English summary) **99c:11012**
Cameron, Peter J. *see* **Calkin, Neil J., 99c:11012**
Hwang, Hsien-Kuei A Poisson $*$ negative binomial convolution law for random polynomials over finite fields. (English summary) **99e:11149**
Kochubeĭ, A. N. Limit theorems for sums of p-adic random variables. (English summary) **99m:60016**
Laurinčikas, Antanas On limit distribution of the Lerch zeta-function. (English summary) **99i:11077**
Manstavičius, Eugenijus The Berry-Esseen bound in the theory of random permutations. (English summary) **99i:60019**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

Items with secondary classifications in 11Lxx

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11L03 Trigonometric and exponential sums, general

Ikromov, I. A. On the convergence exponent of trigonometric integrals. **99i:11064**
Shen, Li-Chien On a class of q-series related to quadratic forms. (English summary) **99h:11091**
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Chinburg, Ted (*with* Savage, Carla D.; Wilf, Herbert S.) Combinatorial families that are exponentially far from being listable in Gray code sequence. (English summary) **99c:11024**
Coulter, Robert S. Further evaluations of Weil sums. **99i:11113**
García López, Ricardo Exponential sums and singular hypersurfaces. (English summary) **99e:11112**
Savage, Carla D. *see* **Chinburg, Ted; et al., 99c:11024**
Spencer, Donald C. Old memories and an old problem. (*see* **99g:00034**)
Wilf, Herbert S. *see* **Chinburg, Ted; et al., 99c:11024**
Yu, Hong Bing Note on Heath-Brown's estimate for Heilbronn's exponential sum. (English summary) **99j:11094**

11L05 Gauss and Kloosterman sums; generalizations

Berndt, Bruce C. (*with* Evans, Ronald J.; Williams, Kenneth S.) ★ Gauss and Jacobi sums. **99d:11092**
Carpentier, Michel Sommes de Kloosterman généralisées: l'équation fonctionnelle. [Generalized Kloosterman sums: the functional equation] **99a:11097**
Coutsias, E. A. (*with* Kazarinoff, N. D.) The approximate functional formula for the theta function and Diophantine Gauss sums. (English summary) **99b:11091**
Dąbrowski, Romuald (*with* Fisher, Benji) A stationary phase formula for exponential sums over $\mathbf{Z}/p^m\mathbf{Z}$ and applications to GL(3)-Kloosterman sums. **99d:11093**

Denef, Jan (*with* Gyoja, Akihiko) Character sums associated to prehomogeneous vector spaces. (English summary) **99k:11128**
Evans, Ronald J. Congruences for Jacobi sums. (English summary) **99e:11109**
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Gyoja, Akihiko Character sums and intersection cohomology complexes associated to the space of square matrices. (English summary) **99h:11092**
— *see also* **Denef, Jan, 99k:11128**
Hwang, Shin-Chul *see* **Yoon, Dall Sun, 99e:11111**
Ito, Hiroshi[2] On a product related to the cubic Gauss sum. II. (English summary) **99a:11098**
— Cubic Gaussian sums and related elementary products. (Japanese) **99j:11090**
Kazarinoff, N. D. *see* **Coutsias, E. A., 99b:11091**
Michel, Philippe Autour de la conjecture de Sato-Tate pour les sommes de Kloosterman. II. [On the Sato-Tate conjecture for Kloosterman sums. II] **99d:11094**
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— Kloosterman sums on number fields. **99i:11066**
Turaev, Vladimir G. Reciprocity for Gauss sums on finite abelian groups. **99f:11103**
Wang, Guo Qin (*with* Zheng, Zhi Yong) Kloosterman sums with oscillating coefficients. (Chinese. Chinese summary) **99j:11091**
Williams, Kenneth S. *see* **Berndt, Bruce C.; et al., 99d:11092**
Ye, Yangbo Kuznetsov formulas for generalized Kloosterman sums. **99e:11110**
— Hyper-Kloosterman sums and estimation of exponential sums of polynomials of higher degrees. **99i:11067**
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— The lifting of an exponential sum to a cyclic algebraic number field of prime degree. (English summary) **99b:11092**
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Yoon, Dall Sun (*with* Hwang, Shin-Chul) On the irreducible quintic polynomial over the rational number field. **99e:11111**
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Deloup, Florian Linking forms, reciprocity for Gauss sums and invariants of 3-manifolds. (English summary) **99h:57035**
Denef, Jan (*with* Loeser, François) Character sums associated to finite Coxeter groups. (English summary) **99b:11138**
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11M36 Selberg zeta functions and regularized determinants

Illies, Georg Regularisierte Produkte, Spurformeln und Cramér-Funktionen. [Regularized products, trace formulas and Cramér functions] **99j:11100**
Keating, Jonathan P. Resummation and the turning points of zeta functions. (English summary) (*see* **99a:81002**)
Lewis, John B.[2] (*with* Zagier, Don) Period functions and the Selberg zeta function for the modular group. **99c:11108**
Schmutz Schaller, Paul Geometry of Riemann surfaces based on closed geodesics. **99b:11098**
Tsuzuki, Masao Elliptic factors of Selberg zeta functions. **99b:11099**
Williams, Floyd L. Meromorphic continuation of Minakshisundaram-Pleijel series for semisimple Lie groups. (English summary) **99b:11100**
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Bytsenko, Andrei A. (*with* Gonçalves, Antonio E.; da Cruz, W.) Torsion on hyperbolic manifolds and the semiclassical limit for Chern-Simons theory. (English summary) **99j:58219**
Chang, Cheng-Hung (*with* Mayer, Dieter) The period function of the nonholomorphic Eisenstein series for $\mathrm{PSL}(2,\mathbf{Z})$. (English summary) **99k:11070**
da Cruz, W. *see* **Bytsenko, Andrei A.; et al., 99j:58219**
Deitmar, Anton Erratum to: "Geometric zeta functions on p-adic groups" [Math. Japon. **47** (1998), no. 1, 1–17; MR 98m:11130]. **99f:11153**
Deninger, Christopher Some analogies between number theory and dynamical systems on foliated spaces. (English summary) **99g:11084**
Gonçalves, Antonio E. *see* **Bytsenko, Andrei A.; et al., 99j:58219**
Koyama, Shin-ya Prime geodesic theorem for arithmetic compact surfaces. **99k:11076**
Luck, J. M. Polygonal billiards and aperiodic tilings. (English summary) **99c:52032**
Mayer, Dieter *see* **Chang, Cheng-Hung, 99k:11070**
Morita, Takehiko Markov systems and transfer operators associated with cofinite Fuchsian groups. (English summary) **99d:58137**
Olbrich, Martin *see* **Bunke, Ulrich, 99j:11056**
Pollicott, Mark (*with* Sharp, Richard) Exponential error terms for growth functions on negatively curved surfaces. (English summary) **99h:58148**
Sharp, Richard *see* **Pollicott, Mark, 99h:58148**
Williams, Floyd L. The role of Selberg's trace formula in the computation of Casimir energy for certain Clifford-Klein space-times. (English summary) **99b:22027**

11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72.}

Anshel, Michael (*with* Goldfeld, Dorian) Zeta functions, one-way functions, and pseudorandom number generators. **99c:11109**
Boas, Harold P. The football player and the infinite series. **99a:11101**
(Bohr, Harald) *see* **Boas, Harold P., 99a:11101**
Bombieri, Enrico (*with* Perelli, A.) Distinct zeros of L-functions. **99a:11102**
Borwein, Jonathan M. (*with* Bradley, David M.; Broadhurst, David J.; Lisoněk, Petr) Combinatorial aspects of multiple zeta values. (English summary) **99g:11100**
Bradley, David M. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Broadhurst, David J. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Chen, Kwang-Wu *see* **Eie, Minking, 99m:11099**
Denef, Jan (*with* Laeremans, Ann; Sargos, P.) On the largest nontrivial pole of the distribution $|f|^s$. **99g:11101**
Eie, Minking (*with* Chen, Kwang-Wu) A theorem on zeta functions associated with polynomials. (English summary) **99m:11099**
Elizalde, Emilio Multidimensional extension of the generalized Chowla-Selberg formula. (English summary) **99k:11137**

Essouabri, Driss Singularité des séries de Dirichlet associées à des polynômes de plusieurs variables et applications en théorie analytique des nombres. (English summary) [Singularity of the Dirichlet series associated with multivariate polynomials and applications in analytic number theory] **99d:11098**

Flajolet, Philippe (*with* Salvy, Bruno) Euler sums and contour integral representations. (English summary) **99c:11110**

Fomenko, M. N. On some L-functions of a polynomial ring over a finite field. (Russian. Russian summary) **99c:11111**

Fukaya, Takako On Hasse zeta functions of enveloping algebras of solvable Lie algebras. **99b:11101a**

— On Hasse zeta functions of enveloping algebras of solvable Lie algebras. II. **99b:11101b**

— Hasse zeta functions of non-commutative rings. **99i:11078**

Goldfeld, Dorian *see* **Anshel, Michael, 99c:11109**

Goldston, D. A. (*with* Gonek, S. M.) Mean value theorems for long Dirichlet polynomials and tails of Dirichlet series. (English summary) **99a:11103**

Gonek, S. M. *see* **Goldston, D. A., 99a:11103**

Gritsenko, S. A. On zeros of a special form of functions associated with Dirichlet series in the Selberg class. (Russian) **99c:11112**

— On zeros of linear combinations of analogues of the Riemann function. (Russian) **99h:11102**

Hoffman, Michael E. The algebra of multiple harmonic series. (English summary) **99e:11119**

Ibukiyama, Tomoyoshi (*with* Saito, Hiroshi[1]) On the "simple" zeta-functions. (Japanese. Japanese summary) **99e:11120**

Ishibashi, Makoto $\mathbf{Q}$-linear relations of special values of the Estermann zeta function. **99j:11101**

Jayaswal, Puran On generalizations of zeta functions. (English summary)

Kaczorowski, Jerzy (*with* Perelli, A.) Functional independence of the singularities of a class of Dirichlet series. (English summary) **99b:11102**

Laeremans, Ann *see* **Denef, Jan; et al., 99g:11101**

Laurinčikas, Antanas On limit distribution of the Matsumoto zeta function. II. (Russian. Lithuanian summary) **99c:11113**

— On the Matsumoto zeta-function. **99m:11100**

— On zeros of linear combinations of the Matsumoto zeta functions. (Russian. Lithuanian summary) **99j:11102**

— A limit theorem in the theory of finite abelian groups. (English summary) **99m:11101**

Lisoněk, Petr *see* **Borwein, Jonathan M.; et al., 99g:11100**

Matsumoto, Kohji Asymptotic series for double zeta and double gamma functions of Barnes. **99g:11102**

— Asymptotic series for double zeta, double gamma, and Hecke L-functions. (English summary) **99i:11079**

Midorikawa, Hisaichi On Dirichlet series of a certain commutative matrix ring. **99f:11113**

Ohno, Yasuo A generalization of the duality and sum formulas on the multiple zeta values. (English summary) **99k:11138**

Pavlov, A. I. Meromorphic continuation of Dirichlet series connected with the distribution of numbers modulo 1. (Russian) **99f:11114**

Perelli, A. *see* **Bombieri, Enrico, 99a:11102** *and* **Kaczorowski, Jerzy, 99b:11102**

Peter, Manfred Dirichlet series associated with polynomials. **99c:11114**

Saito, Hiroshi[1] *see* **Ibukiyama, Tomoyoshi, 99e:11120**

Salvy, Bruno *see* **Flajolet, Philippe, 99c:11110**

Sargos, P. *see* **Denef, Jan; et al., 99g:11101**

Sato, Fumihiro Zeta functions of prehomogeneous vector spaces and weakly spherical homogeneous spaces. **99e:11121**

Yukie, Akihiko On Shintani zeta functions for GL(2). (English summary) **99b:11103**

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Baake, Michael Combinatorial aspects of colour symmetries. (English summary) **99b:11077**

— (*with* Moody, Robert V.) Similarity submodules and semigroups. (English summary) **99h:52024**

Balakrishnan, U. (*with* Pétermann, Y.-F. S.) Errata to: "The Dirichlet series of $\zeta(s)\zeta^{\alpha}(s+1)f(s+1)$: on an error term associated with its coefficients" [Acta Arith. **75** (1996), no. 1, 39–69; MR 97k:11131]. **99m:11105**

Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) Some remarks on a lemma of A. E. Ingham. (English summary) **99c:11106**

Bär, Christian Heat operator and ζ-function estimates for surfaces. (English summary) **99i:58151**

Blind, Bruno Distributions homogènes sur une algèbre de Jordan. (English and French summaries) [Homogeneous distributions on a Jordan algebra] **99g:46052**

Bogomol'nyĭ, E. B. Spectral statistics. (English summary) **99h:81053**

Cardon, David A. A Riemann hypothesis condition for metaplectic Eisenstein series. (English summary) **99g:11060**

Chevalley, Claude L'hypothèse de Riemann pour les corps de fonctions algébriques de caractéristique p. I. [The Riemann hypothesis for algebraic function fields of characteristic p. I] (*see* **99f:00033**)

— L'hypothèse de Riemann pour les corps de fonctions algébriques de caractéristique p. II. [The Riemann hypothesis for algebraic functional fields of characteristic p. II] (*see* **99f:00033**)

Denef, Jan (*with* Gyoja, Akihiko) Character sums associated to prehomogeneous vector spaces. (English summary) **99k:11128**

Dörfer, Martin (*with* Rosenberger, Gerhard) Zeta function of finitely generated nilpotent groups. **99b:20060**

Eie, Minking (*with* Lai, King F.) On Bernoulli identities and applications. (English summary) **99h:11017**

Elizalde, Emilio ★ Ten physical applications of spectral zeta functions. (English summary) **99b:58236**

Foata, Dominique (*with* Zeilberger, Doron) A combinatorial proof of Bass's evaluations of the Ihara-Selberg zeta function for graphs. (English summary) **99i:05137**

Grunewald, Fritz (*with* Kühnlein, Stefan) On the proof of Humbert's volume formula. (English summary) **99h:11044**

Gyoja, Akihiko *see* **Denef, Jan, 99k:11128**

Hall, R. R. Franel integrals. **99d:11073**

Hsu, Chih-Nung Estimates for coefficients of L-functions for function fields. (English summary) **99m:11136**

Ibukiyama, Tomoyoshi On Shintani's zeta functions of ternary zero forms (third approach). **99c:11043**

Ivić, Aleksandar On the number of subgroups of finite abelian groups. (English and French summaries) **99g:11115**

Jang, Young Ho An asymptotic expansion of the p-adic Green function. (English summary) **99g:11142**

Kamiya, Yuichi Zero density estimates of L-functions associated with cusp forms. **99j:11050**

Kapranov, Mikhail Operads and algebraic geometry. (English summary) **99g:14033**

Katayama, Koji (*with* Ohtsuki, Makoto) On the multiple gamma-functions. **99f:11115**

Kühnlein, Stefan *see* **Grunewald, Fritz, 99h:11044**

Laca, Marcelo Semigroups of *-endomorphisms, Dirichlet series, and phase transitions. (English summary) **99f:46097**

Lai, King F. *see* **Eie, Minking, 99h:11017**

Lichtin, Ben Asymptotics determined by pairs of additive polynomials. **99c:11123**

Lindqvist, Peter (*with* Seip, Kristian) Note on some greatest common divisor matrices. (English summary) **99f:11034**

Moody, Robert V. *see* **Baake, Michael, 99h:52024**

Nguyễn Minh Chu'o'ng (*with* Nguyen Van Co) Multidimensional p-adic Green function. (English summary) **99i:11109**

Nguyen Van Co *see* **Nguyễn Minh Chu'o'ng, 99i:11109**

Ogata, Shoetsu (*with* Saitō, Masa-Hiko) Signature defects and eta functions of degenerations of abelian varieties. **99c:14059**

Ohtsuki, Makoto *see* **Katayama, Koji, 99f:11115**

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Rajan, C. S. Distribution of values of Hecke characters of infinite order. (English summary) **99e:11142**

Ramachandra, Kanakanahalli *see* **Balasubramanian, Ramachandran, 99c:11106**

Rosenberger, Gerhard *see* **Dörfer, Martin, 99b:20060**

Saitō, Masa-Hiko *see* **Ogata, Shoetsu, 99c:14059**

Sczech, Robert Eisenstein cocycles for arithmetic groups and values of zeta functions. **99a:11061**

Seip, Kristian *see* **Lindqvist, Peter, 99f:11034**

Sheats, Jeffrey T. The Riemann hypothesis for the Goss zeta function for $\mathbf{F}_q[T]$. (English summary) **99b:11127**

Stankus, E. Modified zeta functions and the number of g-integers. (English summary) **99m:11104**

Vinogradov, A. I. The fourth moments of Dirichlet series. (English summary) **99j:11097**

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Weil, André Fonction zêta et distributions. [Zeta functions and distributions] (*see* **99f:00041**)

Zeilberger, Doron *see* **Foata, Dominique, 99i:05137**

11M45 Tauberian theorems [see also 40E05]

Bhaskaran, R. On the versatility of Ramanujan's ideas. (*see* **99g:11001**)

Stechkin, Sergeĭ Borisovich Farey sequences. (Russian. Russian summary) **99g:11103**

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Hsia, Liang-chung On the dynamical height zeta functions. **99c:11076**

Zhang, Wen-Bin[1] The prime element theorem in additive arithmetic semigroups. II. **99j:11115**

11M99 None of the above, but in this section

Katayama, Koji (*with* Ohtsuki, Makoto) On the multiple gamma-functions. **99f:11115**

Ohtsuki, Makoto *see* **Katayama, Koji, 99f:11115**

Items with secondary classifications in 11M99

Candelpergher, B. (*with* Coppo, M. A.; Delabaere, Eric) La sommation de Ramanujan. (French summary) [The Ramanujan summation] **99a:11149**

Coppo, M. A. *see* **Candelpergher, B.; et al., 99a:11149**

Delabaere, Eric *see* **Candelpergher, B.; et al., 99a:11149**

11Nxx Multiplicative number theory

Items with secondary classifications in 11Nxx

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11N05 Distribution of primes

Coppola, G. (*with* Vitolo, Antonio) Corrigendum to: "On the distribution of primes in intervals of length $\log^{\theta} N$" [Acta Math. Hungar. **70** (1996), no. 1-2, 151–166; MR 96i:11103]. **99c:11115**

Kaczorowski, Jerzy Bounded mean oscillation and the distribution of primes. **99k:11139**

Kaniecki, Leszek On differences of primes in short intervals under the Riemann hypothesis. (English summary) **99c:11116**

Languasco, A. A note on primes and Goldbach numbers in short intervals. (English summary) **99g:11104**

Moser, Jan Orthogonality conditions on finite intervals for the functions $\pi(x)$ and $R(x)$ that occur in the law of prime numbers. (Russian) **99f:11116**
Pisot, Charles Démonstration élémentaire du théorème des nombres premiers. [Elementary proof of the prime number theorem] (*see* **99f:00033**)
Richstein, Jörg Unendliche Geschwisterliebe unter Zahlen oder Die Suche nach den Primzahlzwillingen. [Infinite sibling love among numbers or The search for the twin primes] **99f:11117**
Sinnadurai, J. St. C. L. An elementary proof of the prime number theorem along classical lines. (English summary) **99i:11080**
Vitolo, Antonio *see* **Coppola, G., 99c:11115**
Zaccagnini, Alessandro Primes in almost all short intervals. **99g:11105**

Items with secondary classifications in 11N05

Cochrane, Todd (*with* Dressler, Robert E.) Gaps between integers with the same prime factors. (English summary) **99c:11118**
Diamond, Harold George (*with* Halberstam, H.) Some applications of sieves of dimension exceeding 1. (English summary) **99d:11102**
Dressler, Robert E. *see* **Cochrane, Todd, 99c:11118**
Dusart, Pierre The kth prime is greater than $k(\ln k + \ln\ln k - 1)$ for $k \geq 2$. (English summary) **99d:11133**
Elstrodt, Jürgen A quick proof of the prime number theorem for arithmetic progressions. (English summary) **99m:11102**
Halberstam, H. *see* **Diamond, Harold George, 99d:11102**
Harman, Glyn Eratosthenes, Legendre, Vinogradov and beyond: the hidden power of the simplest sieve. **99e:11123**
Moser, Jan The function $\tilde{\zeta}_{-1}(s)$ and formulas of the second generation for $\pi(x)$ and $R(x)$. (Russian) **99i:11075**

11N13 Primes in progressions [see also 11B25]

Elstrodt, Jürgen A quick proof of the prime number theorem for arithmetic progressions. (English summary) **99m:11102**
Goldston, D. A. (*with* Vaughan, R. C.) On the Montgomery-Hooley asymptotic formula. **99d:11099**
— (*with* Yıldırım, Cem Y.) Primes in short segments of arithmetic progressions. (English summary) **99f:11118**
Hooley, Christopher On the Barban-Davenport-Halberstam theorem. IX. **99g:11107**
— On the Barban-Davenport-Halberstam theorem. VIII. **99g:11106**
Kaczorowski, Jerzy A note on primes in reciprocal arithmetic progressions. (English summary) **99c:11117**
— Boundary values of Dirichlet series and the distribution of primes. **99f:11119**
Sedrakian, Naïri (*with* Steinig, John) A particular case of Dirichlet's theorem on arithmetic progressions. **99g:11108**
Steinig, John *see* **Sedrakian, Naïri, 99g:11108**
Vaughan, R. C. *see* **Goldston, D. A., 99d:11099**
Yıldırım, Cem Y. *see* **Goldston, D. A., 99f:11118**

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Baker, R. C. (*with* Harman, Glyn) Shifted primes without large prime factors. **99b:11104**
Guy, Richard K. Nothing's new in number theory? **99k:11002**
Harman, Glyn *see* **Baker, R. C., 99b:11104**
Vaughan, R. C. On a variance associated with the distribution of general sequences in arithmetic progressions. I, II. (English summary) **99i:11094**

11N25 Distribution of integers with specified multiplicative constraints

Baker, R. C. (*with* Harman, Glyn) Shifted primes without large prime factors. **99b:11104**
Balog, Antal (*with* Wooley, Trevor D.) On strings of consecutive integers with no large prime factors. (English summary) **99g:11109**
de la Bretèche, R. Sommes d'exponentielles et entiers sans grand facteur premier. [Exponential sums and integers without large prime factors] **99f:11120**
Brown, Thomas Craig (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Sequences with translates containing many primes. (English summary) **99b:11105**
Cao, Xiao Dong[1] On the distribution of square-full integers. (English summary) **99a:11104**
Chen, Yong-Gao The largest prime factors of integers n and $n+1$. (Chinese. English and Chinese summaries) **99e:11122**
Cochrane, Todd (*with* Dressler, Robert E.) Gaps between integers with the same prime factors. (English summary) **99c:11118**
Codecà, P. (*with* Nair, Mohan) Extremal values of $\Delta(x,N) = \sum_{n<xN,(n,N)=1} 1 - x\varphi(N)$. (English summary) **99g:11110**
De Koninck, Jean-Marie (*with* Ivić, Aleksandar) On a sum of divisors problem. (English summary) **99m:11103**
Dressler, Robert E. *see* **Cochrane, Todd, 99c:11118**
Erdős, Paul[1] (*with* Pomerance, Carl; Sárközy, András) On locally repeated values of certain arithmetic functions. IV. (English summary) **99c:11119**
Granville, Andrew (*with* Soundararajan, K.) A binary additive problem of Erdős and the order of 2 mod p^2. (English summary) **99i:11081**
Harman, Glyn *see* **Baker, R. C., 99b:11104**
Huxley, M. N. Moments of differences between square-free numbers. **99j:11103**
Hwang, Hsien-Kuei Sur la répartition des valeurs des fonctions arithmétiques. Le nombre de facteurs premiers d'un entier. (English summary) [On the distribution of the values of arithmetical functions. The number of prime factors of an integer] **99d:11100**
— Corrections to: "Asymptotic behaviour of some infinite products involving prime numbers" [Acta Arith. **75** (1996), no. 4, 339–350; MR 97d:11140].
Ivić, Aleksandar *see* **De Koninck, Jean-Marie, 99m:11103**
Kaczorowski, Jerzy (*with* Perelli, A.) On the distribution in short intervals of products of a prime and integers from a given set. **99g:11111**
Khodzhaev, N. M. The problem of V. G. Sprindzhuk on the square-free part of the product of consecutive natural numbers. (Russian. Russian summary) **99a:11105**
Krätzel, Ekkehard *see* **Seibold, René, 99k:11140**
Nair, Mohan *see* **Codecà, P., 99g:11110**
Perelli, A. *see* **Kaczorowski, Jerzy, 99g:11111**
Pomerance, Carl *see* **Erdős, Paul[1]; et al., 99c:11119**
Saias, Eric Applications des entiers à diviseurs denses. [Applications of integers with dense divisors] **99g:11112**
Sárközy, András *see* **Erdős, Paul[1]; et al., 99c:11119**
Seibold, René (*with* Krätzel, Ekkehard) Die Verteilung der k-vollen and l-freien Zahlen. (English summary) [The distribution of k-full and l-free numbers] **99k:11140**
Shiue, Peter Jau-Shyong *see* **Brown, Thomas Craig; et al., 99b:11105**
Soundararajan, K. *see* **Granville, Andrew, 99i:11081**
Stankus, E. Modified zeta functions and the number of g-integers. (English summary) **99m:11104**
Stef, André (*with* Tenenbaum, Gérald) Entiers lexicographiques. (English summary) [Lexicographical integers] **99i:11082**
Tenenbaum, Gérald *see* **Stef, André, 99i:11082**
Timofeev, Nikolai M. Distribution in the mean in progressions of numbers with a large number of prime factors. (Russian) **99i:11083**
Wooley, Trevor D. *see* **Balog, Antal, 99g:11109**
Yu, Xiu Yuan *see* **Brown, Thomas Craig; et al., 99b:11105**

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Anderson, Peter G. *see* **Bruckman, Paul S., 99i:11007**
Balazard, Michel (*with* Tenenbaum, Gérald) Sur la répartition des valeurs de la fonction d'Euler. (English summary) [On the distribution of the values of the Euler function] **99a:11107**
Balog, Antal (*with* Ruzsa, Imre Z.) On an additive property of stable sets. **99f:11014**
Bruckman, Paul S. (*with* Anderson, Peter G.) Conjectures on the Z-densities of the Fibonacci sequence. **99i:11007**
Diamond, Harold George (*with* Halberstam, H.) Some applications of sieves of dimension exceeding 1. (English summary) **99d:11102**
Halberstam, H. *see* **Diamond, Harold George, 99d:11102**
Heath-Brown, D. R. (*with* Jia, Chaohua) The largest prime factor of the integers in an interval. II. **99d:11103**
Jia, Chaohua *see* **Heath-Brown, D. R., 99d:11103**
Martin, Greg Dense Egyptian fractions. (English summary) **99m:11035**
Nair, Mohan (*with* Tenenbaum, Gérald) Short sums of certain arithmetic functions. **99j:11110**
(Nicolas, Jean-Louis) *see* **Ramanujan, Srinivasa Aiyangar, 99b:11112**
Norton, Karl K. A character-sum estimate and applications. **99j:11096**
Ramanujan, Srinivasa Aiyangar Highly composite numbers. (English summary) **99b:11112**
(Robin, Guy) *see* **Ramanujan, Srinivasa Aiyangar, 99b:11112**
Ruzsa, Imre Z. *see* **Balog, Antal, 99f:11014**
Saidak, F. Erdős conjecture. I. (English summary) **99h:11005**
Tenenbaum, Gérald *see* **Balazard, Michel, 99a:11107** *and* **Nair, Mohan, 99j:11110**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

Browkin, Jerzy (*with* Filaseta, Michael; Greaves, G. R. H.; Schinzel, Andrzej) Squarefree values of polynomials and the *abc*-conjecture. **99d:11101**
Bugeaud, Yann On the greatest prime factor of $(ab+1)(bc+1)(ca+1)$. **99k:11141**
Filaseta, Michael *see* **Browkin, Jerzy; et al., 99d:11101**
Granville, Andrew *ABC* allows us to count squarefrees. **99j:11104**
Greaves, G. R. H. *see* **Browkin, Jerzy; et al., 99d:11101**
Schinzel, Andrzej *see* **Browkin, Jerzy; et al., 99d:11101**

Items with secondary classifications in 11N32

Bauer, Claus On the sum of a prime and the kth power of a prime. **99e:11131**
Brown, Thomas Craig (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Sequences with translates containing many primes. (English summary) **99b:11105**
McKee, James A note on the number of divisors of quadratic polynomials. **99d:11106**
Nair, Mohan (*with* Tenenbaum, Gérald) Short sums of certain arithmetic functions. **99j:11110**
Shiue, Peter Jau-Shyong *see* **Brown, Thomas Craig; et al., 99b:11105**
Tenenbaum, Gérald *see* **Nair, Mohan, 99j:11110**
Yu, Xiu Yuan *see* **Brown, Thomas Craig; et al., 99b:11105**

11N35 Sieves

Andersson, Mats Erik Das Flaviussche Sieb. [The Flavius sieve] **99g:11113**
Chow, Timothy Y. The combinatorics behind number-theoretic sieves. (English summary) **99i:11084**
Diamond, Harold George (*with* Halberstam, H.) Some applications of sieves of dimension exceeding 1. (English summary) **99d:11102**
— (*with* Halberstam, H.) On the sieve parameters α_κ and β_κ for large κ. (English summary) **99b:11106**
Greaves, G. R. H. The sieve method. **99i:11085**
Halberstam, H. *see* **Diamond, Harold George, 99b:11106** *and* **99d:11102**

Items with secondary classifications in 11N35

Bradley, David M. (*with* Diamond, Harold George) A difference differential equation of Euler-Cauchy type. (English summary) **99a:34172**
Diamond, Harold George *see* **Bradley, David M., 99a:34172**
Harman, Glyn Eratosthenes, Legendre, Vinogradov and beyond: the hidden power of the simplest sieve. **99e:11123**
Heath-Brown, D. R. Almost-prime k-tuples. **99a:11106**
Le, Mao Hua On the Smarandache n-ary sieve. (English summary)
Saias, Eric Applications des entiers à diviseurs denses. [Applications of integers with dense divisors] **99g:11112**

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Friedlander, John B. Topics in analytic number theory. **99j:11105**

Harman, Glyn Eratosthenes, Legendre, Vinogradov and beyond: the hidden power of the simplest sieve. **99e:11123**

Heath-Brown, D. R. Almost-prime k-tuples. **99a:11106**

— (*with* Jia, Chaohua) The largest prime factor of the integers in an interval. II. **99d:11103**

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Ahmadi, M. H. (*with* Bleicher, M. N.) On the conjectures of Erdős and Straus, and Sierpiński on Egyptian fractions. (English summary) **99k:11049**

Baker, R. C. (*with* Harman, Glyn; Pintz, J.) The exceptional set for Goldbach's problem in short intervals. **99g:11121**

— (*with* Harman, Glyn) Shifted primes without large prime factors. **99b:11104**

— (*with* Harman, Glyn) The three primes theorem with almost equal summands. (English summary) **99c:11124**

Balog, Antal Six primes and an almost prime in four linear equations. (English summary) **99f:11129**

Bleicher, M. N. *see* **Ahmadi, M. H., 99k:11049**

Cai, Tian Xin On Euler's equation $\varphi(x) = k$. (English and Chinese summaries) **99h:11104**

Cai, Yingchun *see* **Lu, Minggao, 99m:11116**

Diamond, Harold George (*with* Halberstam, H.) Some applications of sieves of dimension exceeding 1. (English summary) **99d:11102**

Duke, William Elliptic curves with no exceptional primes. (English and French summaries) **99b:11059**

Elliott, P. D. T. A. (*with* Sárközy, András) The distribution of the number of prime divisors of numbers of form $ab + 1$. (English summary) **99j:11112**

Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. I. Distribution in residue classes. (English summary) **99e:11127**

Granville, Andrew (*with* Soundararajan, K.) A binary additive problem of Erdős and the order of 2 mod p^2. (English summary) **99i:11081**

Halberstam, H. *see* **Diamond, Harold George, 99d:11102**

Harman, Glyn *see* **Baker, R. C., 99b:11104; 99c:11124** *and* **99g:11121**

Hsu, Chih-Nung Applications of the large sieve inequality for $\mathbf{F}_q[T]$. (English summary) **99d:11130**

Indlekofer, Karl-Heinz (*with* Timofeev, Nikolai M.) A mean-value theorem for multiplicative functions on the set of shifted primes. (English summary) **99e:11125**

Kátai, Imre (*with* van Rossum-Wijsmuller, Marijke) On the iterates of the sum of unitary divisors. (English summary) **99a:11008**

Kawada, Koichi A zero density estimate for Dedekind zeta functions of pure extension fields. **99k:11180**

Li, Shu Guang On the number of elements with maximal order in the multiplicative group modulo n. **99k:11144**

Liu, Jian Ya (*with* Liu, Ming-Chit; Wang, Tian Ze) The number of powers of 2 in a representation of large even integers. I. (English summary) **99j:11120**

Liu, Ming-Chit *see* **Liu, Jian Ya; et al., 99j:11120**

Lu, Minggao (*with* Cai, Yingchun) Chen's theorem in short intervals. **99m:11116**

Martin, Greg Uniform bounds for the least almost-prime primitive root. **99j:11113**

Mauduit, Christian *see* **Erdős, Paul**[1]**; et al., 99e:11127**

Michel, Philippe Minorations de sommes d'exponentielles. [Lower bounds of exponential sums] **99i:11069**

Pintz, J. *see* **Baker, R. C.; et al., 99g:11121**

Rivat, Joël (*with* Sárközy, András; Stewart, C. L.) Congruence properties of the Ω-function on sumsets. (English summary) **99m:11112**

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Sárközy, András *see* **Erdős, Paul**[1]**; et al., 99e:11127; Elliott, P. D. T. A., 99j:11112** *and* **Rivat, Joël; et al., 99m:11112**

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Timofeev, Nikolai M. *see* **Indlekofer, Karl-Heinz, 99e:11125**

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Warlimont, Richard On natural numbers as sums of consecutive hth powers. **99b:11030**

Wiertelak, K. On the distribution of the smallest natural numbers having order mod p not coprime with a given integer. (English summary) **99h:11112**

Wong, K. C. On the distribution of αp^k modulo 1. **99b:11084**

Wong, Simon Concentration function of additive functions on shifted twin primes. **99e:11126**

Zaccagnini, Alessandro Primes in almost all short intervals. **99g:11105**

Zhai, Wen Guang The Waring-Goldbach problem in thin sets of primes. (Chinese. English and Chinese summaries) **99h:11116**

11N37 Asymptotic results on arithmetic functions

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Bachman, Gennady Some remarks on nonnegative multiplicative functions on arithmetic progressions. (English summary) **99k:11142**

Balakrishnan, U. (*with* Pétermann, Y.-F. S.) Asymptotic estimates for a class of summatory functions. (English summary) **99d:11105**

— (*with* Pétermann, Y.-F. S.) Errata to: "The Dirichlet series of $\zeta(s)\zeta^\alpha(s+1)f(s+1)$: on an error term associated with its coefficients" [Acta Arith. **75** (1996), no. 1, 39–69; MR 97k:11131]. **99m:11105**

Balazard, Michel (*with* Tenenbaum, Gérald) Sur la répartition des valeurs de la fonction d'Euler. (English summary) [On the distribution of the values of the Euler function] **99a:11107**

Cai, Tian Xin On Euler's equation $\varphi(x) = k$. (English and Chinese summaries) **99h:11104**

Calderón, Catalina (*with* Zárate Azcuna, María José) Note on a paper by A. Ivić. (English summary) **99b:11107**

Daniel, Stephan ★ Teilerprobleme für homogene Polynome. (German) [Divisor problems for homogeneous polynomials] **99f:11121**

— On the divisor-sum problem for binary forms. **99k:11143**

De Koninck, Jean-Marie (*with* Ivić, Aleksandar) Arithmetic functions defined on sets of primes of positive density. (English summary) **99c:11120**

Faĭnleĭb, A. S. (*with* Khudoleeva, O. I.) On the distribution of elements of normed free semigroups. (Russian. English and Uzbek summaries) **99h:11105**

— *see also* **Tulyaganova, M. I., 99f:11123**

Ford, Kevin The distribution of totients. (English summary) **99m:11106**

Furuya, Jun (*with* Tanigawa, Yoshio) Estimation of a certain function related to the Dirichlet divisor problem. (English summary) **99j:11106**

Goryunov, Yu. Yu. A generalization of Dressler's theorem. (Russian) **99a:11108**

Greuel, Bernd Sums of products of some arithmetic functions on the semigroup G_K. (English summary) **99c:11121**

Ivić, Aleksandar The Voronoi identity via the Laplace transform. (English summary) **99g:11114**

— *see also* **De Koninck, Jean-Marie, 99c:11120**

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Kiuchi, Isao (*with* Tanigawa, Yoshio) The mean value theorem of the divisor problem for short intervals. (English summary) **99j:11108**

Konyagin, Sergeĭ (*with* Stechkin, Sergeĭ Borisovich) An estimate for the number of solutions of nth degree congruence with one unknown. (Russian) **99j:11109**

Krätzel, Ekkehard *see* **Seibold, René, 99b:11109**

Kühleitner, Manfred On a generalization of a formula of Sierpinski. (English summary) **99m:11107**

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Li, Shu Guang On the number of elements with maximal order in the multiplicative group modulo n. **99k:11144**

Liu, Jian Ya The mean value of the error term of the rth power $J_k^r(n)$ of the Jordan totient function. (Chinese. English and Chinese summaries) **99b:11108**

Mačiulis, A. The asymptotical expansion in the mean value theorem for multiplicative functions. (English summary) **99k:11145**

McKee, James A note on the number of divisors of quadratic polynomials. **99d:11106**

Nair, Mohan (*with* Tenenbaum, Gérald) Short sums of certain arithmetic functions. **99j:11110**

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— *see also* **Balakrishnan, U., 99d:11105** *and* **99m:11105**

Schwarz, Wolfgang Karl Evaluation of mean-values of products of shifted arithmetical functions. **99i:11087**

— (*with* Spilker, Jürgen) A remark on some special arithmetical functions. (English summary) **99i:11088**

Seibold, René (*with* Krätzel, Ekkehard) Exponentialsummen und unsymmetrische Teilerprobleme. (English summary) [Exponential sums and unsymmetric divisor problems] **99b:11109**

Shirokov, B. M. Distribution of the values of the generalized sum of divisors. (Russian. English and Russian summaries) **99h:11106**

Skałba, Mariusz On ζ-convergence of sequences. (English summary) **99j:11111**

Soliba, Kh. M. On the mean value of the ternary function of divisors on a sparse sequence. (Russian) **99h:11107**

Spilker, Jürgen *see* **Schwarz, Wolfgang Karl, 99i:11088**

Stechkin, Sergeĭ Borisovich *see* **Konyagin, Sergeĭ, 99j:11109**

Stong, Richard A. The average order of a permutation. (English summary) **99f:11122**

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Timofeev, Nikolai M. An additive divisor problem with a growing number of factors. (Russian. Russian summary) **99b:11110**

Tulyaganov, S. T. Summation of values of multiplicative functions. I. (Russian. English and Uzbek summaries) **99k:11146a**

— Summation of values of multiplicative functions. II. (Russian. English and Uzbek summaries) **99k:11146b**

Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) On the regular case of the Halasz theorem. (Russian. English and Uzbek summaries) **99f:11123**

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De Koninck, Jean-Marie (*with* Ivić, Aleksandar) On a sum of divisors problem. (English summary) **99m:11103**

Elliott, P. D. T. A. Shifted primes and Kubilius models. (English summary) **99m:11091**

Erdős, Paul[1] (*with* Pomerance, Carl; Sárközy, András) On locally repeated values of certain arithmetic functions. IV. (English summary) **99c:11119**

— (*with* Nicolas, Jean-Louis; Sárközy, András) On large values of the divisor function. (English summary) **99h:11108**

Hooley, Christopher On the Barban-Davenport-Halberstam theorem. IX. **99g:11107**

— On the Barban-Davenport-Halberstam theorem. VIII. **99g:11106**

Hwang, Hsien-Kuei Sur la répartition des valeurs des fonctions arithmétiques. Le nombre de facteurs premiers d'un entier. (English summary) [On the distribution of the values of arithmetical functions. The number of prime factors of an integer] **99d:11100**

Indlekofer, Karl-Heinz (*with* Timofeev, Nikolai M.) Estimates for multiplicative functions on the set of shifted primes. (English summary) **99k:11126**

Ivić, Aleksandar On the ternary additive divisor problem and the sixth moment of the zeta-function. **99k:11129**

— On some integrals involving certain number-theoretic error terms. (English summary) **99g:11116**
— *see also* **De Koninck, Jean-Marie**, **99m:11103**
Kiuchi, Isao (*with* Matsumoto, Kohji) The resemblance of the behaviour of the remainder terms $E_\sigma(t)$, $\Delta_{1-2\sigma}(x)$ and $R(\sigma+it)$. (English summary) **99e:11115**
Kuba, G. On the circle problem with linear weight. **99k:11156**
Kubilius, Jonas On some inequalities in the probabilistic number theory. (English summary) **99k:11127**
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Nowak, Werner Georg On differences of two kth powers of integers. (English summary) **99j:11118**
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Stef, André (*with* Tenenbaum, Gérald) Entiers lexicographiques. (English summary) [Lexicographical integers] **99i:11082**
Stepanauskas, Gediminas Mean values of multiplicative functions on shifted numbers. (Russian. Lithuanian summary) **99f:11102**
— The mean values of multiplicative functions. II. (Russian. Lithuanian summary) **99i:11090**
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Timofeev, Nikolai M. Distribution in the mean in progressions of numbers with a large number of prime factors. (Russian) **99i:11083**
— *see also* **Indlekofer, Karl-Heinz**, **99k:11126**
Xuan, Ti Zuo On the asymptotic estimates of sifting functions. **99h:11109**
Yokota, Hisashi Corrigendum: "On number of integers representable as a sum of unit fractions. II" [J. Number Theory **67** (1997), no. 2, 162–169; MR 98k:11031]. **Zhang, Wen-Bin[1]** Mean-value theorems of multiplicative functions on additive arithmetic semigroups. **99h:11113**

11N45 Asymptotic results on counting functions for algebraic and topological structures

Bhowmik, Gautami (*with* Menzer, H.) On the number of subgroups of finite abelian groups. **99b:11111**
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Lucchini, Andrea Enumerating transitive finite permutation groups. **99g:20012**
Łuczak, Tomasz (*with* Schoen, Tomasz) Small bases for finite groups. **99i:20036**
Moree, Pieter Counting divisors of Lucas numbers. (English summary) **99m:11013**
Pavlov, A. I. On two classes of permutations with number-theoretic constraints on cycle lengths. (Russian. Russian summary) **99i:05013**
Peter, Manfred Dirichlet series associated with polynomials. **99c:11114**
Pyber, László Group enumeration and where it leads us. **99i:20037**
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11N56 Rate of growth of arithmetic functions

Arkhipov, G. I. (*with* Chubarikov, V. N.) On the greatest prime factor of a sequence of the form $[n^c]$. (Russian. English summary) **99d:11107**
Chubarikov, V. N. *see* **Arkhipov, G. I.**, **99d:11107**
Erdős, Paul[1] (*with* Nicolas, Jean-Louis; Sárközy, András) On large values of the divisor function. (English summary) **99h:11108**
Ivić, Aleksandar The general additive divisor problem and moments of the zeta-function. (English summary) **99i:11089**
Nicolas, Jean-Louis *see* **Erdős, Paul[1]; et al.**, **99h:11108** *and* **Ramanujan, Srinivasa Aiyangar**, **99b:11112**
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Sukla, Indulata On Dirichlet convolution method. (English summary) **99d:11108**
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Bachman, Gennady Some remarks on nonnegative multiplicative functions on arithmetic progressions. (English summary) **99k:11142**
Brown, Thomas Craig (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Sequences with translates containing many primes. (English summary) **99b:11105**
Deléglise, Marc (*with* Rivat, Joël) Computing $\psi(x)$. (English summary) **99a:11147**
Furuya, Jun (*with* Tanigawa, Yoshio) Estimation of a certain function related to the Dirichlet divisor problem. (English summary) **99j:11106**
Gould, H. W. *see* **Shonhiwa, Temba**, **99f:11010**
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Stechkin, Sergeĭ Borisovich Farey sequences. (Russian. Russian summary) **99g:11103**
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11N60 Distribution functions associated with additive and positive multiplicative functions

Elliott, P. D. T. A. (*with* Sárközy, András) The distribution of the number of prime divisors of numbers of form $ab+1$. (English summary) **99j:11112**
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Nakajima, Masumi Densities for sums of independent random variables and their applications to the value distributions of $\Delta(x)$, $P(x)$ and $\zeta(s)$. (English summary) **99m:11110**
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Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. I. Distribution in residue classes. (English summary) **99e:11127**
Manstavičius, Eugenijus A proof of the Erdős arcsine law. (English summary) **99f:11101**
Mauduit, Christian *see* **Erdős, Paul[1]; et al.**, **99e:11127**
Sárközy, András *see* **Erdős, Paul[1]; et al.**, **99c:11127**
Stepanauskas, Gediminas Mean values of multiplicative functions on shifted numbers. (Russian. Lithuanian summary) **99f:11102**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Balazard, Michel Une remarque sur la fonction d'Euler. (French summary) [A remark on the Euler function] **99h:11110**
Balog, Antal (*with* Perelli, A.) On the L^1 mean of the exponential sum formed with the Möbius function. **99f:11126**
Dence, Thomas P. (*with* Pomerance, Carl) Euler's function in residue classes. (English summary) **99k:11148**
Indlekofer, Karl-Heinz (*with* Stakėnas, V.) Multiplicative functions of Farey fractions. (English summary) **99h:11111**
— (*with* Timofeev, Nikolai M.) A mean-value theorem for multiplicative functions on the set of shifted primes. (English summary) **99e:11125**
Ivić, Aleksandar On some integrals involving certain number-theoretic error terms. (English summary) **99g:11116**
Luca, Florian On the divergence of the Smarandache harmonic series.
Mauclaire, Jean-Loup A characterization of some additive arithmetical functions. (English summary) **99k:11149**
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Perelli, A. *see* **Balog, Antal**, **99f:11126**
Pomerance, Carl *see* **Dence, Thomas P.**, **99k:11148**
Rivat, Joël (*with* Sárközy, András; Stewart, C. L.) Congruence properties of the Ω-function on sumsets. (English summary) **99m:11112**
Sander, J. W. On the value distribution of arithmetic functions. (English summary) **99c:11122**
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Fehér, János (*with* Kátai, Imre; Bui Minh Phong) On multiplicative functions satisfying a special relation. (English summary) **99f:11007**
— On generalized q-multiplicative functions. (English summary) **99d:11090**
Ford, Kevin The distribution of totients. (English summary) **99m:11106**

Hwang, Hsien-Kuei Sur la répartition des valeurs des fonctions arithmétiques. Le nombre de facteurs premiers d'un entier. (English summary) [On the distribution of the values of arithmetical functions. The number of prime factors of an integer] **99d:11100**
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Lu, Minggao (*with* Cai, Yingchun) Chen's theorem in short intervals. **99m:11116**
Norton, Karl K. A character-sum estimate and applications. **99j:11096**
Schwarz, Wolfgang Karl (*with* Spilker, Jürgen) A remark on some special arithmetical functions. (English summary) **99i:11088**
Shirokov, B. M. Distribution of the values of the generalized sum of divisors. (Russian. English and Russian summaries) **99h:11106**
Spilker, Jürgen *see* **Schwarz, Wolfgang Karl, 99i:11088**
Stef, André (*with* Tenenbaum, Gérald) Entiers lexicographiques. (English summary) [Lexicographical integers] **99i:11082**
Sukla, Indulata On Dirichlet convolution method. (English summary) **99d:11108**
Tenenbaum, Gérald *see* **Stef, André, 99i:11082**
Timofeev, Nikolai M. Distribution in the mean in progressions of numbers with a large number of prime factors. (Russian) **99i:11083**

11N69 Distribution of integers in special residue classes

Cobeli, Cristian (*with* Zaharescu, Alexandru) On the distribution of primitive roots mod p. **99a:11110**
Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. I. Distribution in residue classes. (English summary) **99e:11127**
(Gallagher, P.) *see* **Zhang, Wenpeng, 99a:11112**
Martin, Greg Uniform bounds for the least almost-prime primitive root. **99j:11113**
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11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

Chamizo, Fernando Correlated sums of $r(n)$. (English summary) **99k:11150**

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11N80 Generalized primes and integers

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11Pxx Additive number theory; partitions

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11P05 Waring's problem and variants

Bertault, F. (*with* Ramaré, Olivier; Zimmermann, Paul) On sums of seven cubes. (English summary) **99j:11116**
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— Densities of integer sequences. **99c:11013**
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11P21 Lattice points in specified regions

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— The circle problem. (Spanish)
Cilleruelo, Javier (*with* Jiménez-Urroz, Jorge) Divisors in a Dedekind domain. **99f:11128**
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11P32 Goldbach-type theorems; other additive questions involving primes

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— (*with* Harman, Glyn) The three primes theorem with almost equal summands. (English summary) **99c:11124**
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Betts, C. Additive and subtractive irreducible monic decompositions in $\mathbf{Z}[x]$. (English and French summaries) **99f:11133**
Brüdern, Jörg (*with* Cook, Roger J.; Perelli, A.) The values of binary linear forms at prime arguments. **99f:11130**
— (*with* Perelli, A.) Goldbach numbers in sparse sequences. **99j:11119**
Buriev, K. *see* **Arkhipov, G. I.; et al., 99k:11157**
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— (*with* Nedeva, Todorka Nedeva) On an equation with prime numbers. **99g:11122**
Liu, Jian Ya (*with* Liu, Ming-Chit; Wang, Tian Ze) The number of powers of 2 in a representation of large even integers. I. (English summary) **99j:11120**
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Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai) Vinogradov's three primes theorem. **99f:11131**
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Zhai, Wen Guang The Waring-Goldbach problem in thin sets of primes. (Chinese. English and Chinese summaries) **99h:11116**
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11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Bauer, Claus On the sum of a prime and the kth power of a prime. **99e:11131**
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Balog, Antal (*with* Perelli, A.) On the L^1 mean of the exponential sum formed with the Möbius function. **99f:11126**
Brüdern, Jörg (*with* Cook, Roger J.; Perelli, A.) The values of binary linear forms at prime arguments. **99f:11130**
— (*with* Perelli, A.) Goldbach numbers in sparse sequences. **99j:11119**
Cook, Roger J. *see* **Brüdern, Jörg; et al., 99f:11130**
Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. I. Distribution in residue classes. (English summary) **99e:11127**
Harman, Glyn *see* **Baker, R. C., 99c:11124** *and* **99g:11121**
Hooley, Christopher On Hypothesis K^* in Waring's problem. **99i:11091**
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Kačėnas, A. A note on the mean square of $\zeta(s)$ in the critical strip. (English summary) **99h:11098**
Liu, Jian Ya (*with* Zhan, Tao) Sums of five almost equal prime squares. II. (English summary) **99h:11115**
— (*with* Liu, Ming-Chit; Wang, Tian Ze) The number of powers of 2 in a representation of large even integers. I. (English summary) **99j:11120**
Liu, Ming-Chit (*with* Wang, Tian Ze) A numerical bound for small prime solutions of some ternary linear equations. **99m:11115**
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11P81 Elementary theory of partitions [see also 05A17]

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Campbell, Geoffrey B. A closer look at some new identities. (English summary) **99d:11110**
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— (*with* Savage, Carla D.; Venkatraman, Radhika) A bijection for partitions with all ranks at least t. (English summary) **99f:11135**
Denis, Remy Y. (*with* Singh, Shobh Nath) Some partition theorems. (English summary) **99m:11118**
Eichhorn, Dennis A combinatorial approach to partitions with parts in the gaps. **99f:11136**
Farkas, Hershel M. A variation on a theorem of Euler. **99j:11122**
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11P82 Analytic theory of partitions

Andrews, George E. The well-poised thread: an organized chronicle of some amazing summations and their implications. (English summary) **99a:11116**
Baxter, Rodney J. A direct proof of Kim's identities. (English summary) **99i:11095**
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Gordon, Basil (*with* Ono, Ken) Divisibility of certain partition functions by powers of primes. (English summary) **99c:11128**
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Berkovich, Alexander (*with* McCoy, Barry M.; Pearce, Paul A.) The perturbations $\varphi_{2,1}$ and $\varphi_{1,5}$ of the minimal models $M(p, p')$ and the trinomial analogue of Bailey's lemma. (English summary) **99g:81195**
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Pearce, Paul A. *see* **Berkovich, Alexander; et al., 99g:81195**
Schilling, Anne (*with* Warnaar, S. Ole) A higher level Bailey lemma: proof and application. (English summary) **99k:11028**
Vershik, Anatoliĭ Moiseevich Limit distribution of the energy of a quantum ideal gas from the point of view of the theory of partitions of natural numbers. (Russian) **99b:82016**
Warnaar, S. Ole *see* **Schilling, Anne, 99k:11028**

11P83 Partitions; congruences and congruential restrictions

Alladi, Krishnaswami On a partition theorem of Göllnitz and quartic transformations. (English summary) **99d:11112**
Èminyan, K. M. On a binary problem. (Russian) **99f:11138**
(Gordon, Basil) *see* **Alladi, Krishnaswami, 99d:11112**
Ono, Ken Partitions into distinct parts and elliptic curves. (English summary) **99f:11139**
— The residue of $p(N)$ modulo small primes. (English summary) **99h:11117**

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Alladi, Krishnaswami A variation on a theme of Sylvester—a smoother road to Göllnitz's (big) theorem. (English summary) **99k:11159**
Andrews, George E. ★ The theory of partitions. (English summary) **99c:11126**
Farkas, Hershel M. A variation on a theorem of Euler. **99j:11122**

11P99 None of the above, but in this section

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Foda, Omar (*with* Lee, Keith S. M.; Welsh, Trevor A.) A Burge tree of Virasoro-type polynomial identities. (English summary) **99k:17047**
Gunderson, David S. (*with* Rödl, Vojtěch) Extremal problems for affine cubes of integers. (English summary) **99a:11015**
Harcos, Gergely (*with* Ruzsa, Imre Z.) A problem on zero subsums in abelian groups. (English summary) **99f:11025**
Lee, Keith S. M. *see* **Foda, Omar; et al., 99k:17047**
Margulis, Grigorii A. Oppenheim conjecture. **99e:11046**
Rödl, Vojtěch *see* **Gunderson, David S., 99a:11015**
Ruzsa, Imre Z. *see* **Harcos, Gergely, 99f:11025**
Welsh, Trevor A. *see* **Foda, Omar; et al., 99k:17047**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Diamond, Harold George *see* **Pollard, Harry, 99k:11164**
Klingen, Norbert ★ Arithmetical similarities. **99k:11163**
Koch, Helmut V. ★ Zahlentheorie. (German. German summary) [Number theory] **99j:11123**
Pollard, Harry (*with* Diamond, Harold George) ★ The theory of algebraic numbers. (English summary) **99k:11164**
Weiss, Edwin ★ Algebraic number theory. (English summary) **99c:11129**

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(Adamson, Iain T.) *see* **Hilbert, David[1], 99j:01027**
Hilbert, David[1] ★ The theory of algebraic number fields. (English summary) **99j:01027**
(Lemmermeyer, Franz) *see* **Hilbert, David[1], 99j:01027**
(Schappacher, Norbert) *see* **Hilbert, David[1], 99j:01027**

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11R04 Algebraic numbers; rings of algebraic integers

Bedocchi, E. Remarks on a graph of primes in $\mathbf{Z}[i]$. (Italian. English summary) **99g:11125**
Bulota, K. On incomplete quotients of a class of algebraic numbers. (Russian. Russian summary) (*see* **99k:11003**)
Dubickas, Artūras Algebraic conjugates outside the unit circle. (English summary) **99i:11096**
— On algebraic numbers close to 1. (English summary) **99k:11165**
Gaál, István Computing power integral bases in algebraic number fields. (English summary) **99d:11113**
— Power integral bases in composita of number fields. (English summary) **99b:11116**
Hiyoshi, Hisamoto (*with* Sekigawa, Hiroshi) Deciding the sign of an algebraic number by a floating point calculation. (Japanese) (*see* **99h:00034**)
Husnine, S. M. *see* **Kausar, Imrana; et al., 99k:11166** *and* **99k:11167**
Kausar, Imrana (*with* Husnine, S. M.; Majeed, Abdul) Behaviour of ambiguous and totally positive or negative elements of $\mathbf{Q}^*(\sqrt{n})$ under the action of the modular group. (English summary) **99k:11166**
— (*with* Husnine, S. M.; Majeed, Abdul) Action of the group $h = \langle t, y : t^3 = y^3 = 1 \rangle$ on the quadratic field. (English summary) **99k:11167**
Majeed, Abdul *see* **Kausar, Imrana; et al., 99k:11166** *and* **99k:11167**
Ruppert, Wolfgang M. Small generators of number fields. (English summary) **99d:11114**
Scheicher, Klaus Kanonische Ziffernsysteme und Automaten. (English summary) [Canonical number systems and automata] **99m:11119**
Sekigawa, Hiroshi *see* **Hiyoshi, Hisamoto, (99h:00034)**
Thérond, Jean-Daniel Zyklische kubische monogene Erweiterungen der ganzalgebraischen Zahlen eines quadratischen Körpers. (French summary) [Cyclic cubic monogenic extensions of the algebraic integers of a quadratic field] **99m:11120**

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Aslam, M. (*with* Husnine, S. M.; Majeed, Abdul) On invariant subsets of certain quadratic fields under modular group action. (English summary) **99c:11131**
Baer, Christine (*with* Rosenberger, Gerhard) The equation $ax^2 + by^2 + cz^2 = dxyz$ over quadratic imaginary fields. (English summary) **99c:11028**
Brown, Ronald Paul (*with* Harrison, David K.) Abelian Frobenius kernels and modules over number rings. (English summary) **99h:20026**
Buchmann, Johannes (*with* Eisenbrand, Friedrich) On factor refinement in number fields. (English summary) **99e:11155**
Cerveau, D. (*with* Loray, F.) Un théorème de Frobenius singulier via l'arithmétique élémentaire. (French summary) [A singular Frobenius theorem via elementary arithmetic] **99e:32057**
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Harrison, David K. *see* **Brown, Ronald Paul, 99h:20026**
Husnine, S. M. *see* **Aslam, M.; et al., 99c:11131**
Kliorys, Constantine Applications of algebraic units. (English summary) **99g:11130**
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Majeed, Abdul *see* **Aslam, M.; et al., 99c:11131**
Michelacakis, N. J. Projective flat manifolds of cyclic and dihedral holonomy. (English summary) **99g:14057**
Mit'kin, D. A. On some Diophantine equations connected with Pellian equation. (English summary) **99h:11025**
Nikishin, N. A. (*with* Skriganov, M. M.) On the distribution of algebraic numbers in parallelotopes. (Russian. Russian summary) **99g:11120**
Oesterlé, Joseph (*with* Pharamond dit d'Costa, Layla) Fermetures intégrales des $\overline{\mathbf{Z}}$-algèbres. (English summary) [Integral closures of $\overline{\mathbf{Z}}$-algebras] **99b:13009**
Pharamond dit d'Costa, Layla *see* **Oesterlé, Joseph, 99b:13009**
Porubský, Štefan On Smarandache's form of the individual Fermat-Euler theorem. (English summary) **99h:11004**
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Skriganov, M. M. *see* **Nikishin, N. A., 99g:11120**

11R06 PV-numbers and generalizations; other special algebraic numbers

Erdős, Paul[1] (*with* Komornik, Vilmos) Developments in non-integer bases. (English summary) **99e:11132**
Komornik, Vilmos *see* **Erdős, Paul[1]**, **99e:11132**
Smyth, C. J. There are only eleven special Pisot numbers. (English summary) **99h:11118**
Zaïmi, Toufik Sur la fermeture de l'ensemble des K-nombres de Pisot. [On the closedness of the set of Pisot K-numbers] **99e:11133**
— Caractérisation d'un ensemble généralisant l'ensemble des nombres de Pisot. [Characterization of a set generalizing the set of Pisot numbers] **99m:11121**

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Akiyama, Shigeki Pisot numbers and greedy algorithm. (English summary) **99d:11007**
Barache, Damien (*with* Champagne, Bernard; Gazeau, Jean Pierre) Pisot-cyclotomic quasilattices and their symmetry semigroups. (English summary) **99g:52028**
Boyd, David W. Mahler's measure and special values of L-functions. (English summary) **99d:11070**
Champagne, Bernard *see* **Barache, Damien; et al.**, **99g:52028**
Erdős, Paul[1] (*with* Joó, István; Komornik, Vilmos) On the sequence of numbers of the form $\varepsilon_0 + \varepsilon_1 q + \cdots + \varepsilon_n q^n$, $\varepsilon_i \in \{0, 1\}$. **99a:11022**
Gazeau, Jean Pierre *see* **Barache, Damien; et al.**, **99g:52028**
Joó, István *see* **Erdős, Paul[1]; et al.**, **99a:11022**
Komornik, Vilmos *see* **Erdős, Paul[1]; et al.**, **99a:11022**

11R09 Polynomials (irreducibility, etc.)

Amoroso, Francesco A remark on a theorem of Szegő. (English summary) **99a:11118**
Borisov, Alexandr On some polynomials allegedly related to the *abc* conjecture. **99f:11140**
Boyd, David W. Uniform approximation to Mahler's measure in several variables. (English summary) **99e:11134**
Dèbes, Pierre (*with* Zannier, Umberto) Universal Hilbert subsets. (English summary) **99f:11141**
Dubickas, Artūras (*with* Konyagin, Sergeĭ) On the number of polynomials of bounded measure. **99m:11122**
Goddard, B. *see* **Mollin, R. A.**, **99g:11126**
Grandcolas, Michel Weighted diameters of complete sets of conjugate algebraic integers. (English summary) **99c:11130**
Konyagin, Sergeĭ *see* **Dubickas, Artūras**, **99m:11122**
Mollin, R. A. (*with* Goddard, B.) Quadratic prime-producing polynomials. (English summary) **99g:11126**
Mossinghoff, Michael J. Polynomials with small Mahler measure. (English summary) **99a:11119**
Narkiewicz, Władysław (*with* Pezda, Tadeusz) Finite polynomial orbits in finitely generated domains. (English summary) **99b:11117**
Pezda, Tadeusz *see* **Narkiewicz, Władysław**, **99b:11117**
Pinner, Christopher G. Bounding the elliptic Mahler measure. (English summary) **99e:11135**
Schinzel, Andrzej Reducibility of polynomials over Kroneckerian fields. **99i:11097**
Zannier, Umberto *see* **Dèbes, Pierre**, **99f:11141**

Items with secondary classifications in 11R09

Hwang, Shin-Chul *see* **Yoon, Dall Sun**, **99e:11111**
Narkiewicz, Władysław Arithmetics of dynamical systems: a survey. (English summary) **99b:11018**
Pakovitch, Fedor Combinatoire des arbres planaires et arithmétique des courbes hyperelliptiques. [Combinatorics of planar trees and arithmetic of hyperelliptic curves] **99h:11055**
Schinzel, Andrzej The Mahler measure of polynomials. **99k:11041**
Yoon, Dall Sun (*with* Hwang, Shin-Chul) On the irreducible quintic polynomial over the rational number field. **99e:11111**

11R11 Quadratic extensions

Aslam, M. (*with* Husnine, S. M.; Majeed, Abdul) On invariant subsets of certain quadratic fields under modular group action. (English summary) **99c:11131**
Cao, Zhen Fu The class numbers of some imaginary quadratic fields and a class of Diophantine equations. (Chinese. English and Chinese summaries) **99b:11118**
Cheng, Kell Hiu Fai *see* **Mollin, R. A.**, **99m:11123**
Goddard, B. *see* **Mollin, R. A.**, **99i:11098**
Husnine, S. M. *see* **Aslam, M.; et al.**, **99c:11131**
Kaplan, Pierre Idéaux réduits, nombres réduits et équation $D = y^2 + 4xz$. [Reduced ideals, reduced numbers and the equation $D = y^2 + 4xz$] **99j:11124**
Kishi, Yasuhiro Characteristics of quadratic fields whose class numbers are divisible by 3. (Japanese) (*see* **99d:11001**)
Majeed, Abdul *see* **Aslam, M.; et al.**, **99c:11131**
Mollin, R. A. Jacobi symbols, ambiguous ideals, and continued fractions. **99e:11136**
— Class number one and prime-producing quadratic polynomials revisited. (English summary) **99g:11127**
— A survey of Jacobi symbols, ideals, and continued fractions. (English summary) **99h:11119**
— (*with* Goddard, B.) Richaud-Degert prime-producers. (English summary) **99i:11098**
— (*with* Cheng, Kell Hiu Fai) Palindromy and ambiguous ideals revisited. (English summary) **99m:11123**
Thérond, Jean-Daniel Les idéaux de l'anneau des entiers d'un corps quadratique. (French summary) [The ideals of the ring of integers of a quadratic field] (*see* **99g:00032**)
Washington, Lawrence C. (*with* Zhang, Xian Ke) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. **99g:11128b**
— (*with* Zhang, Xian Ke) Heuristics and related results on class groups of real quadratic fields. (English summary) **99j:11125**
— *see also* **Zhang, Xian Ke**, **99g:11128a**
Zeng, Guo Ping Conditions for an algebraic integer β to have a primitive root in the quadratic field $\mathbf{Q}(\sqrt{6})$. (Chinese. English and Chinese summaries)
Zhang, Xian Ke (*with* Washington, Lawrence C.) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. (Chinese) **99g:11128a**
— *see also* **Washington, Lawrence C.**, **99g:11128b** *and* **99j:11125**

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Agoh, Takashi (*with* Shoji, Toshiaki) Quadratic equations over finite fields and class numbers of real quadratic fields. (English summary) **99b:11120**
Arno, Steven (*with* Robinson, M. L.; Wheeler, Ferrell S.) Imaginary quadratic fields with small odd class number. **99a:11123**
Beck, József Diophantine approximation and quadratic fields. **99k:11108**
— From probabilistic Diophantine approximation to quadratic fields. **99m:11080**
Bedocchi, E. Remarks on a graph of primes in $\mathbf{Z}[i]$. (Italian. English summary) **99g:11125**
Browkin, Jerzy (*with* Gangl, Herbert) Tame and wild kernels of quadratic imaginary number fields. (English summary) **99c:11144**
Chamizo, Fernando (*with* Iwaniec, Henryk) On the Gauss mean-value formula for class number. (English summary) **99h:11041**
Gangl, Herbert *see* **Browkin, Jerzy**, **99c:11144**
Gerth, Frank, III On 2-class field towers for quadratic number fields with 2-class group of type $(2, 2)$. **99a:11130**
Gethner, Ellen (*with* Wagon, Stan; Wick, Brian) A stroll through the Gaussian primes. **99b:11006**
Goddard, B. *see* **Mollin, R. A.**, **99g:11126**
Grisel, Guillaume Length of continued fractions in principal quadratic fields. (English summary) **99g:11015**
Hajir, Farshid On the class numbers of Hilbert class fields. **99b:11121**
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Jacobson, Michael J., Jr. Applying sieving to the computation of quadratic class groups. (English summary) **99i:11120**
Ji, Chun Gang On normal integral bases. (English summary) **99h:11121**
Ji, Guangheng (*with* Lu, Hongwen) Proof of class number formulae by machine—a note on a Chowla's conjecture. (English summary) **99i:11103**
Katayama, Shin-ichi On the class numbers of real quadratic fields of Richaud-Degert type. (English summary) **99c:11136**
Kubota, Tomio On the system of equations involved in the cyclotomy. (Japanese. English summary) **99d:11118**
Langmann, Klaus Unlösbarkeit der Gleichung $x^n - y^2 = az^m$ bei kleinem $\mathrm{ggT}(n, h(-a))$. (German summary) [Unsolvability of the equation $x^n - y^2 = az^m$ for small $\gcd(n, h(-a))$] **99b:11024**
Le, Mao Hua A class of exponential Diophantine equations related to ideal class groups of imaginary quadratic fields. (Chinese. English and Chinese summaries) **99b:11123**
Leu, Ming-Guang Character sums and the series $L(1, \chi)$ with applications to real quadratic fields. (English summary) **99i:11072**
Levesque, Claude On semi-reduced quadratic forms, continued fractions and class number. **99b:11032**
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Maire, Christian Un raffinement du théorème de Golod-Safarevic. (French summary) [A sharpening of the Golod-Shafarevich theorem] **99g:11135**
Mollin, R. A. (*with* Goddard, B.) Quadratic prime-producing polynomials. (English summary) **99g:11126**
Ozaki, Manabu (*with* Taya, Hisao) On the Iwasawa λ_2-invariants of certain families of real quadratic fields. **99a:11122**
Poitou, Georges Solution du problème du dixième discriminant (d'après Stark). [Solution of the problem of the tenth discriminant (after Stark)] (*see* **99f:00042**)
Robinson, M. L. *see* **Arno, Steven; et al.**, **99a:11123**
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Yuan, Ping Zhi The divisibility of the class numbers of real quadratic fields. (Chinese. English and Chinese summaries) **99f:11145**

11R16 Cubic and quartic extensions

Adam, Brigitte Généralisation d'une famille de Shanks. [Generalization of a family of Shanks] **99d:11115**
Cavallar, Stefania (*with* Lemmermeyer, Franz) The Euclidean algorithm in cubic number fields. (English summary) **99e:11137**
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McCall, Thomas M. (*with* Parry, Charles J.; Ranalli, Ramona R.) The 2-rank of the class group of imaginary bicyclic biquadratic fields. (English summary) **99d:11116**
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Pethő, Attila (*with* Zimmer, Horst G.) On a system of norm-equations over cyclic cubic number fields. (English summary) **99k:11168**
Preen, J. *see* **Wangechi, C.; et al.**, **99c:11132**
Ranalli, Ramona R. *see* **McCall, Thomas M.; et al.**, **99d:11116**
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Wangechi, C. (*with* Preen, J.; Stewart, A. G. R.) Number of squfnits in a biquadratic field. (English summary) **99c:11132**

Zimmer, Horst G. *see* **Pethö, Attila**, **99k:11168**

Items with secondary classifications in 11R16

Byeon, Dongho Special values of zeta functions of the simplest cubic fields and their applications. **99c:11141**
Duke, William Bounds for arithmetic multiplicities. (English summary) **99j:11042**
Kliorys, Constantine Applications of algebraic units. (English summary) **99g:11130**
Louboutin, Stéphane Class-group problems for cubic number fields. **99a:11124**
Minemura, Kenji On totally real cubic fields whose unit groups are of type $\{\theta + r, \theta + s\}$. **99m:11126**
Okazaki, Ryotaro On a Shintani decomposition for a cubic field defined by $X^3 + kX - 1 = 0$. **99f:11144**
Thérond, Jean-Daniel Zyklische kubische monogene Erweiterungen der ganzalgebraischen Zahlen eines quadratischen Körpers. (French summary) [Cyclic cubic monogenic extensions of the algebraic integers of a quadratic field] **99m:11120**

11R18 Cyclotomic extensions

Anderson, Greg W. A double complex for computing the sign-cohomology of the universal ordinary distribution. **99k:11169**
Breuer, Thomas Integral bases for subfields of cyclotomic fields. (English summary) **99a:11120**
Helou, Charles Power reciprocity for binomial cyclotomic integers. (English summary) **99j:11126**
Jakubec, Stanislav Congruence of Ankeny-Artin-Chowla type for cyclic fields. (English summary) **99j:11127**
Riese, Udo Kronecker-Weber via Kummer. **99f:11142**
Serre, Jean-Pierre Classes des corps cyclotomiques (d'après K. Iwasawa). [Classes of cyclotomic fields (after K. Iwasawa)] (*see* **99f:00037**)
Shimada, Tutomu Cyclotomic unit and its Fermat quotient. **99e:11138**
Yoshino, Ken-Ichi Class number parity for cyclotomic fields. (English summary) **99d:11117**

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Caldwell, Chris K. Unique (period) primes and the factorization of cyclotomic polynomials minus one. (English summary) **99b:11139**
Chang, Ku-Young (*with* Kwon, Soun-Hi) Class number problem for imaginary cyclic number fields. (English summary) **99i:11102**
Cornacchia, Pietro Fitting ideals of class groups in a $\mathbf{Z}_p$-extension. **99j:11128**
Dem'yanenko, V. A. On Mazur's conjecture. (Russian) **99g:11072**
Fuchs, Peter Rudolf Maillet's determinant and a certain basis of the Stickelberger ideal. (English summary) **99g:11131**
Greither, Cornelius The structure of some minus class groups, and Chinburg's third conjecture for abelian fields. **99f:11143**
Ichimura, Humio On the class numbers of the maximal real subfields of cyclotomic function fields. (English summary) **99e:11143**
— On the class numbers of the maximal real subfields of cyclotomic function fields. II. (English summary) **99h:11134**
Jakubec, Stanislav Note on Wieferich's congruence for primes $p \equiv 1 \pmod 4$. **99i:11012**
— Note on the congruence of Ankeny-Artin-Chowla type modulo p^2. **99m:11128**
— (*with* Lašťák, Miroslav) Congruence of Ankeny-Artin-Chowla type modulo p^2. (English summary) **99m:11127**
Komatsu, Keiichi On the $\mathbf{Z}_3$-extension of a certain cubic cyclic field. **99k:11171**
— Vandiver's conjecture and normal bases. (Japanese) (*see* **99d:11001**)
Kwon, Soun-Hi *see* **Chang, Ku-Young**, **99i:11102**
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Lemmermeyer, Franz Ideal class groups of cyclotomic number fields. II. **99a:11121**
Sharifi, Romyar T. On cyclotomic polynomials, power residues, and reciprocity laws. (English summary) **99a:11007**
Wójcik, Ambroży Linear congruence relations for 2-adic L-series at integers. (English summary) **99j:11132**

11R20 Other abelian and metabelian extensions

Acciaro, Vincenzo (*with* Klüners, Jürgen) Computing automorphisms of abelian number fields. (English summary) **99i:11099**
Carter, James Edgar Module structure of integers in metacyclic extensions. **99c:11133**
Greither, Cornelius The structure of some minus class groups, and Chinburg's third conjecture for abelian fields. **99f:11143**
Hachimori, Yoshitaka (*with* Ichimura, Humio) Semi-local units modulo Gauss sums. (English summary) **99h:11120**
Ichimura, Humio *see* **Hachimori, Yoshitaka**, **99h:11120**
Ji, Chun Gang On normal integral bases. (English summary) **99h:11121**
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Klüners, Jürgen *see* **Acciaro, Vincenzo**, **99i:11099**
Kuzumaki, T. *see* **Kanemitsu, Shigeru**, **99h:11122**
Liu, Tong The Ankeny-Artin-Chowla formula over sextic cyclic number fields. (Chinese. Chinese summary)
Louboutin, Stéphane The nonquadratic imaginary cyclic fields of 2-power degrees with class numbers equal to their genus class numbers. (English summary) **99c:11134**
Yamamura, Ken Maximal unramified extensions of imaginary quadratic number fields of small conductors. (English and French summaries) **99e:11139**

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Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's association with radicals in India. **99a:11053**
Black, Elena V. Deformations of dihedral 2-group extensions of fields. (English summary) **99m:12004**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al.**, **99a:11053**
Czogała, Alfred (*with* Sładek, Andrzej) Higher degree Hilbert symbol equivalence of algebraic number fields. II. (English summary) **99i:11100**
Gaál, István Power integral bases in composita of number fields. (English summary) **99b:11116**
Hirabayashi, Mikihito A generalization of Maillet and Demyanenko determinants. **99b:11122**
Jakubec, Stanislav (*with* Kostra, Juraj) On the existence of a normal basis for an ambiguous ideal. **99f:11147**
Kostra, Juraj *see* **Jakubec, Stanislav**, **99f:11147**
Lee, Joongul On Gross's refined class number formula for elementary abelian extensions. (English summary) **99c:11137**
Liu, Tong Formulae of type Ankeny-Artin-Chowla for class numbers of general cyclic sextic fields. (English summary) **99k:11175**
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11R21 Other number fields

Chen, Yong-Gao (*with* Ji, Chun Gang) The degrees of extensions of algebraic number fields. (Chinese. English and Chinese summaries) **99k:11170**
Czogała, Alfred (*with* Sładek, Andrzej) Higher degree Hilbert symbol equivalence of algebraic number fields. II. (English summary) **99i:11100**
Ji, Chun Gang *see* **Chen, Yong-Gao**, **99k:11170**
Kubota, Tomio On the system of equations involved in the cyclotomy. (Japanese. English summary) **99d:11118**
Lemmermeyer, Franz Ideal class groups of cyclotomic number fields. II. **99a:11121**
Sładek, Andrzej *see* **Czogała, Alfred**, **99i:11100**

Items with secondary classifications in 11R21

Cohen, Henri (*with* Diaz y Diaz, F.; Olivier, Michel) Tables of octic fields with a quartic subfield. (English summary) **99m:11132**
Diaz y Diaz, F. *see* **Cohen, Henri; et al.**, **99m:11132**
Louboutin, Stéphane (*with* Okazaki, Ryotaro) The class number one problem for some non-abelian normal CM-fields of 2-power degrees. **99c:11138**
Okazaki, Ryotaro *see* **Louboutin, Stéphane**, **99c:11138**
Olivier, Michel *see* **Cohen, Henri; et al.**, **99m:11132**
Pacharoni, Ines Properties of Kloosterman sums on number fields of class number one. (English summary) **99i:11065**
— Kloosterman sums on number fields. **99i:11066**
Shimada, Tutomu Index for subgroups of the group of units in number fields. **99k:11174**
Shindo, Koji A note on integral matrices. (English summary) **99d:11024**
Yamamura, Ken Determination of the imaginary normal octic number fields with class number one which are not CM-fields. **99h:11127**

11R23 Iwasawa theory

Balister, P. N. Characteristic distributions for non-torsion Λ-modules. **99e:11140**
Brumer, Armand Travaux récents d'Iwasawa et de Leopoldt. [Recent works of Iwasawa and of Leopoldt] (*see* **99f:00042**)
Colmez, Pierre A generalization of Coleman's isomorphism. (*see* **99d:11001**)
Cornacchia, Pietro Fitting ideals of class groups in a $\mathbf{Z}_p$-extension. **99j:11128**
Greither, Cornelius An equivariant version of an index formula of Fröhlich and McCulloh. (English summary) **99c:11135**
Horie, Kuniaki Iwasawa invariants. (Japanese) **99b:11119**
Kisilevsky, H. A generalization of a result of Sinnott. **99d:11119**
Komatsu, Keiichi On the $\mathbf{Z}_3$-extension of a certain cubic cyclic field. **99k:11171**
— Vandiver's conjecture and normal bases. (Japanese) (*see* **99d:11001**)
— On the Iwasawa λ-invariants of quaternion extensions. **99k:11172**
López-Bautista, Pedro Ricardo (*with* Villa-Salvador, Gabriel Daniel) Integral representation of p-class groups in $\mathbf{Z}_p$-extensions and the Jacobian variety. (English summary) **99k:11173**
Nakajima, Shōichi An introduction to Iwasawa theory. (Japanese) (*see* **99d:11001**)
Ozaki, Manabu (*with* Taya, Hisao) On the Iwasawa λ_2-invariants of certain families of real quadratic fields. **99a:11122**
— (*with* Taya, Hisao) A note on the Iwasawa λ-invariants of real abelian number fields. (English summary) **99j:11129**
— Greenberg's conjecture. (Japanese) (*see* **99d:11001**)
Perrin-Riou, Bernadette Systèmes d'Euler p-adiques et théorie d'Iwasawa. (English and French summaries) [p-adic Euler systems and Iwasawa theory] **99m:11124**
Sauzet, O. Théorie d'Iwasawa des corps p-rationnels et p-birationnels. (English summary) [Iwasawa theory of p-rational and p-birational fields] **99h:11123**
Shanks, Daniel C. (*with* Sime, Patrick J.; Washington, Lawrence C.) Zeros of 2-adic L-functions and congruences for class numbers and fundamental units. (English summary) **99i:11101**
Sime, Patrick J. *see* **Shanks, Daniel C.; et al.**, **99i:11101**
Taya, Hisao *see* **Ozaki, Manabu**, **99a:11122** *and* **99j:11129**
Tsuji, Takae Semi-local units modulo global units. (Japanese) (*see* **99a:11003**)
— Semi-local units modulo cyclotomic units. (Japanese) **99h:11124**
Villa-Salvador, Gabriel Daniel *see* **López-Bautista, Pedro Ricardo**, **99k:11173**
Washington, Lawrence C. *see* **Shanks, Daniel C.; et al.**, **99i:11101**
Xu, Mingzhi Cohomology groups of units in $\mathbf{Z}_p^d$-extensions. **99j:11130**

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Balister, P. N. (*with* Howson, Susan) Note on Nakayama's lemma for compact Λ-modules. **99f:16047**
Bertolini, Massimo Growth of Mordell-Weil groups in anticyclotomic towers. (English summary) **99i:11048**
— (*with* Darmon, Henri) Non-triviality of families of Heegner points and ranks of Selmer groups over anticyclotomic towers. **99h:11053**
Chan, Wai-Kiu Spinor genera under $\mathbf{Z}_p$-extensions. (English summary) **99k:11054**

Cherbonnier, Frédéric (*with* Colmez, Pierre) Théorie d'Iwasawa des représentations p-adiques d'un corps local. [Iwasawa theory of p-adic representations of a local field] **99g:11141**
Colmez, Pierre *see* **Cherbonnier, Frédéric**, **99g:11141**
Cornacchia, Pietro (*with* Greither, Cornelius) Fitting ideals of class groups of real fields with prime power conductor. (English summary) **99j:11137**
Darmon, Henri *see* **Bertolini, Massimo**, **99h:11053**
Delbourgo, Daniel Iwasawa theory for elliptic curves at unstable primes. (English summary) **99g:11083**
Greither, Cornelius The structure of some minus class groups, and Chinburg's third conjecture for abelian fields. **99f:11143**
— *see also* **Cornacchia, Pietro**, **99j:11137**
Gunaratne, H. Sunil μ and λ invariants of a p-adic measure. (English summary) **99e:11146**
Hachimori, Yoshitaka (*with* Ichimura, Humio) Semi-local units modulo Gauss sums. (English summary) **99h:11120**
Howson, Susan *see* **Balister, P. N.**, **99f:16047**
Ichimura, Humio *see* **Hachimori, Yoshitaka**, **99h:11120**
Michel, Alexis Integral and modular representations attached to the Selmer group of an elliptic curve with complex multiplication. (English summary) **99m:11064**
Perrin-Riou, Bernadette Zéros triviaux des fonctions L p-adiques, un cas particulier. (English and French summaries) [A particular case of the trivial zeros of p-adic L-functions] **99k:11097**

11R27 Units and factorization

Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Radicals and units in Ramanujan's work. **99m:11125**
Callialp, Fethi *see* **Eren, Senol**, **99h:11125**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al.**, **99m:11125**
Eren, Senol (*with* Callialp, Fethi) On the calculation for units of ring of coefficients for a module in the algebraic number fields. (English summary) **99h:11125**
Kliorys, Constantine Applications of algebraic units. (English summary) **99g:11130**
Minemura, Kenji On totally real cubic fields whose unit groups are of type $\{\theta + r, \theta + s\}$. **99m:11126**
Okazaki, Ryotaro On a Shintani decomposition for a cubic field defined by $X^3 + kX - 1 = 0$. **99f:11144**
Shimada, Tutomu Index for subgroups of the group of units in number fields. **99k:11174**
Wolfskill, John Comparing the unit groups of two orders in a number field. (English summary) **99h:11126**
Zhang, Liang-Cheng *see* **Berndt, Bruce C.; et al.**, **99m:11125**

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Adam, Brigitte Généralisation d'une famille de Shanks. [Generalization of a family of Shanks] **99d:11115**
Anderson, Greg W. A double complex for computing the sign-cohomology of the universal ordinary distribution. **99k:11169**
Buchmann, Johannes (*with* Eisenbrand, Friedrich) On factor refinement in number fields. (English summary) **99e:11155**
Cohen, Henri Computing in algebraic number fields. (English summary) **99k:11193**
Eisenbrand, Friedrich *see* **Buchmann, Johannes**, **99e:11155**
Ji, Chun Gang Norms of fundamental units in real quadratic function fields. (Chinese. English and Chinese summaries) **99c:11143**
Kaneko, Kan Voronoi-algorithm expansion of a family with period length going to infinity. (English summary) **99g:11129**
Lettl, Günter (*with* Pethö, Attila; Voutier, Paul M.) On the arithmetic of simplest sextic fields and related Thue equations. **99h:11031**
Pethö, Attila (*with* Tichy, Robert F.) On two-parametric quartic families of Diophantine problems. (English summary) **99e:11031**
— (*with* Zimmer, Horst G.) On a system of norm-equations over cyclic cubic number fields. (English summary) **99k:11168**
— *see also* **Lettl, Günter; et al.**, **99h:11031**
Pohst, Michael E. From class groups to class fields. (English summary) **99k:11194**
Preen, J. *see* **Wangechi, C.; et al.**, **99c:11132**
Raghavendran, R. Non-unique factorisation. (English summary) **99g:11004**
Stewart, A. G. R. *see* **Wangechi, C.; et al.**, **99c:11132**
Tichy, Robert F. *see* **Pethö, Attila**, **99e:11031**
Tsuji, Takae Semi-local units modulo global units. (Japanese) (*see* **99a:11003**)
Voutier, Paul M. *see* **Lettl, Günter; et al.**, **99h:11031**
Wangechi, C. (*with* Preen, J.; Stewart, A. G. R.) Number of squfnits in a biquadratic field. (English summary) **99c:11132**
Yin, Linsheng On the cyclotomic units in function fields. (*see* **99a:11003**)
Zimmer, Horst G. *see* **Pethö, Attila**, **99k:11168**

11R29 Class numbers, class groups, discriminants

Agoh, Takashi (*with* Shoji, Toshiaki) Quadratic equations over finite fields and class numbers of real quadratic fields. (English summary) **99b:11120**
Arno, Steven (*with* Robinson, M. L.; Wheeler, Ferrell S.) Imaginary quadratic fields with small odd class number. **99a:11123**
Chang, Ku-Young (*with* Kwon, Soun-Hi) Class number problem for imaginary cyclic number fields. (English summary) **99i:11102**
Fuchs, Peter Rudolf Maillet's determinant and a certain basis of the Stickelberger ideal. (English summary) **99g:11131**
Girstmair, Kurt Class number factors and distribution of residues. (English summary) **99e:11141**
Hajir, Farshid On the class numbers of Hilbert class fields. **99b:11121**
Hirabayashi, Mikihito A generalization of Maillet and Demyanenko determinants. **99b:11122**
Hutchinson, Tim A conjectural extension of the Gross-Zagier formula on singular moduli. (English summary) **99j:11131**
Jakubec, Stanislav Note on the congruence of Ankeny-Artin-Chowla type modulo p^2. **99m:11128**
— (*with* Laššák, Miroslav) Congruence of Ankeny-Artin-Chowla type modulo p^2. (English summary) **99m:11127**
Ji, Guangheng (*with* Lu, Hongwen) Proof of class number formulae by machine—a note on a Chowla's conjecture. (English summary) **99i:11103**
Katayama, Shin-ichi On the class numbers of real quadratic fields of Richaud-Degert type. (English summary) **99c:11136**
Kwon, Soun-Hi *see* **Park, Young Ho**, **99a:11125** *and* **Chang, Ku-Young**, **99i:11102**
Laššák, Miroslav *see* **Jakubec, Stanislav**, **99m:11127**
Le, Mao Hua A class of exponential Diophantine equations related to ideal class groups of imaginary quadratic fields. (Chinese. English and Chinese summaries) **99b:11123**
Lee, Joongul On Gross's refined class number formula for elementary abelian extensions. (English summary) **99c:11137**
Liu, Tong Formulae of type Ankeny-Artin-Chowla for class numbers of general cyclic sextic fields. (English summary) **99k:11175**
Louboutin, Stéphane Class-group problems for cubic number fields. **99a:11124**
— (*with* Okazaki, Ryotaro) The class number one problem for some non-abelian normal CM-fields of 2-power degrees. **99c:11138**
Lu, Hongwen *see* **Ji, Guangheng**, **99i:11103**
Miyake, Katsuya Class numbers and ideal class groups—old and new problems. (Japanese) (*see* **99d:11001**)
Okazaki, Ryotaro *see* **Louboutin, Stéphane**, **99c:11138**
Park, Young Ho (*with* Kwon, Soun-Hi) Determination of all non-quadratic imaginary cyclic number fields of 2-power degree with relative class number ≤ 20. **99a:11125**
Poitou, Georges Solution du problème du dixième discriminant (d'après Stark). [Solution of the problem of the tenth discriminant (after Stark)] (*see* **99f:00042**)
Robinson, M. L. *see* **Arno, Steven; et al.**, **99a:11123**
Shoji, Toshiaki *see* **Agoh, Takashi**, **99b:11120**
Treatman, Stefan G. Euclidean systems. (English summary) **99m:11129**
Wheeler, Ferrell S. *see* **Arno, Steven; et al.**, **99a:11123**
Yamamura, Ken Determination of the imaginary normal octic number fields with class number one which are not CM-fields. **99h:11127**
Yuan, Ping Zhi The divisibility of the class numbers of real quadratic fields. (Chinese. English and Chinese summaries) **99f:11145**

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Angles, Bruno On the class group problem for function fields. (English summary) **99d:11125**
Bae, Sunghan (*with* Kang, Pyung-Lyun) A remark on the class number formulas over global function fields. (English summary) **99j:11135**
Benjamin, E. (*with* Lemmermeyer, Franz; Snyder, Chip) Imaginary quadratic fields k with cyclic $\mathrm{Cl}_2(k^1)$. (English summary) **99a:11126**
Byeon, Dongho Special values of zeta functions of the simplest cubic fields and their applications. **99c:11141**
Cao, Zhen Fu The class numbers of some imaginary quadratic fields and a class of Diophantine equations. (Chinese. English and Chinese summaries) **99b:11118**
Carter, James Edgar Module structure of integers in metacyclic extensions. **99c:11133**
Chamizo, Fernando (*with* Iwaniec, Henryk) On the Gauss mean-value formula for class number. (English summary) **99h:11041**
Cohen, Henri Computing in algebraic number fields. (English summary) **99k:11193**
Cornacchia, Pietro Fitting ideals of class groups in a $\mathbf{Z}_p$-extension. **99j:11128**
Daberkow, M. (*with* Pohst, Michael E.) On the computation of Hilbert class fields. (English summary) **99h:11130**
Duke, William Bounds for arithmetic multiplicities. (English summary) **99j:11042**
Feng, Keqin (*with* Hu, Weiqun) On real quadratic function fields of Chowla type with ideal class number one. (English summary) **99h:11133**
Goddard, B. *see* **Mollin, R. A.**, **99i:11098**
Hu, Weiqun *see* **Feng, Keqin**, **99h:11133**
Ichimura, Humio On the class numbers of the maximal real subfields of cyclotomic function fields. (English summary) **99e:11143**
— On the class numbers of the maximal real subfields of cyclotomic function fields. II. (English summary) **99h:11134**
Iwaniec, Henryk *see* **Chamizo, Fernando**, **99h:11041**
Jacobson, Michael J., Jr. Applying sieving to the computation of quadratic class groups. (English summary) **99i:11120**
Jakubec, Stanislav Congruence of Ankeny-Artin-Chowla type for cyclic fields. (English summary) **99j:11127**
Kanemitsu, Shigeru (*with* Kuzumaki, T.) On a generalization of the Maillet determinant. **99h:11122**
Kang, Pyung-Lyun (*with* Lee, Dong Soo^2) Genus numbers and ambiguous class numbers of function fields. (English summary) **99i:11104**
— *see also* **Bae, Sunghan**, **99j:11135**
Kaplan, Pierre Idéaux réduits, nombres réduits et équation $D = y^2 + 4xz$. [Reduced ideals, reduced numbers and the equation $D = y^2 + 4xz$] **99j:11124**
Kida, Masanari Reduction of elliptic curves over certain real quadratic number fields. (English summary) **99m:11063**
Kimura, Iwao On class numbers of quadratic extensions over function fields. (English summary) **99e:11144**
Kishi, Yasuhiro Characteristics of quadratic fields whose class numbers are divisible by 3. (Japanese) (*see* **99d:11001**)
Kuzumaki, T. *see* **Kanemitsu, Shigeru**, **99h:11122**
Langmann, Klaus Unlösbarkeit der Gleichung $x^n - y^2 = az^m$ bei kleinem $\mathrm{ggT}(n, h(-a))$. (German summary) [Unsolvability of the equation $x^n - y^2 = az^m$ for small $\gcd(n, h(-a))$] **99b:11024**
Lee, Dong Soo^2 *see* **Kang, Pyung-Lyun**, **99i:11104**
Lemmermeyer, Franz Ideal class groups of cyclotomic number fields. II. **99a:11121**
— *see also* **Benjamin, E.; et al.**, **99a:11126**
Levesque, Claude On semi-reduced quadratic forms, continued fractions and class number. **99b:11032**

Liu, Tong The Ankeny-Artin-Chowla formula over sextic cyclic number fields. (Chinese. Chinese summary)
López-Bautista, Pedro Ricardo (*with* Villa-Salvador, Gabriel Daniel) Integral representation of p-class groups in $\mathbf{Z}_p$-extensions and the Jacobian variety. (English summary) **99k:11173**
Louboutin, Stéphane Upper bounds on $|L(1,\chi)|$ and applications. (English summary) **99f:11149**
— The nonquadratic imaginary cyclic fields of 2-power degrees with class numbers equal to their genus class numbers. (English summary) **99c:11134**
McCall, Thomas M. (*with* Parry, Charles J.; Ranalli, Ramona R.) The 2-rank of the class group of imaginary bicyclic biquadratic fields. (English summary) **99d:11116**
Mollin, R. A. Jacobi symbols, ambiguous ideals, and continued fractions. **99e:11136**
— Class number one and prime-producing quadratic polynomials revisited. (English summary) **99g:11127**
— (*with* Goddard, B.) Richaud-Degert prime-producers. (English summary) **99i:11098**
Nakahara, Toru Experiments on a problem of D. Shanks concerning quadratic fields. **99c:11159**
Parry, Charles J. *see* **McCall, Thomas M.; et al., 99d:11116**
Pethő, Attila (*with* Zimmer, Horst G.) On a system of norm-equations over cyclic cubic number fields. (English summary) **99k:11168**
Pohst, Michael E. From class groups to class fields. (English summary) **99k:11194**
— *see also* **Daberkow, M., 99h:11130**
Ranalli, Ramona R. *see* **McCall, Thomas M.; et al., 99d:11116**
Selmane, Schehrazad Non-primitive number fields of degree eight and of signature (2, 3), (4, 2) and (6, 1) with small discriminant. (English summary) **99c:11160**
Shokrollahi, M. Amin Relative class number of imaginary abelian fields of prime conductor below 10 000. (English summary) **99m:11147**
Snyder, Chip *see* **Benjamin, E.; et al., 99a:11126**
Srinivasan, Anitha Computations of class numbers of real quadratic fields. (English summary) **99b:11143**
Stolin, Alexander On the Picard group of the integer group ring of the cyclic p-group and certain Galois groups. (English summary) **99h:13012**
Szymiczek, Kazimierz 2-ranks of class groups of Witt equivalent number fields. **99m:11041**
Thunder, Jeffrey Lin Higher-dimensional analogs of Hermite's constant. **99f:11082**
Villa-Salvador, Gabriel Daniel *see* **López-Bautista, Pedro Ricardo, 99k:11173**
Wang, Julie T.-Y. (*with* Yu, Jing) On class number relations over function fields. (English summary) **99b:11128**
Washington, Lawrence C. (*with* Zhang, Xian Ke) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. **99g:11128b**
— (*with* Zhang, Xian Ke) Heuristics and related results on class groups of real quadratic fields. (English summary) **99j:11125**
— *see also* **Zhang, Xian Ke, 99g:11128a**
Yoshino, Ken-Ichi Class number parity for cyclotomic fields. (English summary) **99d:11117**
Yu, Jing *see* **Wang, Julie T.-Y., 99b:11128**
Zhang, Shaowei A note on the Tate-Shafarevich group of some elliptic curves. (English and Chinese summaries) **99i:11052**
Zhang, Xian Ke (*with* Washington, Lawrence C.) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. (Chinese) **99g:11128a**
— *see also* **Washington, Lawrence C., 99g:11128b** *and* **99j:11125**
Zimmer, Horst G. *see* **Pethő, Attila, 99k:11168**

11R32 Galois theory

Benjamin, E. (*with* Lemmermeyer, Franz; Snyder, Chip) Imaginary quadratic fields k with cyclic $\mathrm{Cl}_2(k^1)$. (English summary) **99a:11126**
Cohen, Stephen D. (*with* Movahhedi, A.; Salinier, A.) Double transitivity of Galois groups of trinomials. **99c:11139**
Lemmermeyer, Franz *see* **Benjamin, E.; et al., 99a:11126**
Movahhedi, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Ramakrishna, Ravi Deforming an even representation. **99h:11128**
— Deforming an even representation. II. Raising the level. (English summary) **99h:11129**
Ruyer, Dominique Extensions résolubles des corps de nombres algébriques (d'après K. Iwasawa). [Solvable extensions of algebraic number fields (after K. Iwasawa)] (*see* **99f:00035**)
Salinier, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Snyder, Chip *see* **Benjamin, E.; et al., 99a:11126**
Zannier, Umberto On the number of times of root of $f(n,x)=0$ generates a field containing a given number field. (English summary) **99k:11176**

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Arrigoni, Maurice On Schur σ-groups. (English summary) **99f:20047**
Black, Elena V. Arithmetic lifting of dihedral extensions. **99a:12006**
— Deformations of dihedral 2-group extensions of fields. (English summary) **99m:12004**
Boston, Nigel (*with* Leedham-Green, Charles) Counterexamples to a conjecture of Lemmermeyer. (English summary) **99m:11131**
Davis, Sandra (*with* Duke, William; Sun, Xiao Dong[1]) Probabilistic Galois theory of reciprocal polynomials. **99i:11063**
Duke, William *see* **Davis, Sandra; et al., 99i:11063**
Epkenhans, Martin On double covers of the generalized alternating group $Z_d \wr \mathfrak{A}_m$ as Galois groups over algebraic number fields. **99a:12007**
Gaal, Lisl ★ Classical Galois theory. **99g:12001**
Geyer, Wulf-Dieter (*with* Jarden, Moshe) Bounded realization of l-groups over global fields. The method of Scholz and Reichardt. (English summary) **99d:12001**
Horng, Gwoboa (*with* Huang, Ming-Deh A.) Solving polynomials by radicals with roots of unity in minimum depth. (English summary) **99i:12009**
Huang, Ming-Deh A. *see* **Horng, Gwoboa, 99i:12009**
Jarden, Moshe *see* **Geyer, Wulf-Dieter, 99d:12001**
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Riese, Udo Kronecker-Weber via Kummer. **99f:11142**
Rotman, Joseph J. ★ Galois theory. (English summary) **99g:12004**
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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

Agboola, A. (*with* Burns, David J.) On the Galois structure of equivariant line bundles on curves. (English summary) **99k:11177**
Burns, David J. *see* **Agboola, A., 99k:11177**
Byott, Nigel P. Tame realisable classes over Hopf orders. (English summary) **99d:11120**
Chan, Shih-Ping Galois module structure of non-Kummer extensions. (English summary) **99a:11127**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) On the ε-constants of arithmetic schemes. **99d:11121**
Elder, Gove Griffith Galois module structure of ambiguous ideals in biquadratic extensions. (English summary) **99k:11178**
Erez, Boas *see* **Chinburg, Ted; et al., 99d:11121**
Fröhlich, Albrecht Some remarks on wild extensions of number fields. **99b:11124**
Gruenberg, Karl W. (*with* Ritter, Jürgen; Weiss, Alfred R.) On Chinburg's root number conjecture. **99a:11128**
Itoh, Tsuyoshi A construction of normal bases over the Hilbert p-class field of imaginary quadratic fields. **99f:11146**
Jakubec, Stanislav (*with* Kostra, Juraj) On the existence of a normal basis for an ambiguous ideal. **99f:11147**
Kostra, Juraj *see* **Jakubec, Stanislav, 99f:11147**
Pappas, Georgios Galois modules and the theorem of the cube. **99d:11122**
— *see also* **Chinburg, Ted; et al., 99d:11121**
Ritter, Jürgen *see* **Gruenberg, Karl W.; et al., 99a:11128**
Sodaïgui, Bouchaïb "Galois module structure" des extensions quaternioniennes de degré 8. [Galois module structure of quaternionic extensions of degree 8] **99m:11130**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 99d:11121**
Weiss, Alfred R. *see* **Gruenberg, Karl W.; et al., 99a:11128**

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Byott, Nigel P. Associated orders of certain extensions arising from Lubin-Tate formal groups. (English and French summaries) **99d:11126**
Carter, James Edgar Module structure of integers in metacyclic extensions. **99c:11133**
Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, Victor P.) Quaternionic exercises in K-theory Galois module structure. (English summary) **99b:11130**
— (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Localizations of Grothendieck groups and Galois structure. (English summary) **99i:20012**
Elder, Gove Griffith Corrigendum: "Galois module structure of ideals in wildly ramified cyclic extensions of degree p^2" [Ann. Inst. Fourier (Grenoble) **45** (1995), no. 3, 625–647; MR 96d:11125]. **99c:11145**
Erez, Boas *see* **Chinburg, Ted; et al., 99i:20012**
Greither, Cornelius The structure of some minus class groups, and Chinburg's third conjecture for abelian fields. **99f:11143**
Ji, Chun Gang On normal integral bases. (English summary) **99h:11121**
Kolster, Manfred *see* **Chinburg, Ted; et al., 99b:11130**
Lettl, Günter Relative Galois module structure of integers of local abelian fields. **99d:11127**
Miyata, Yoshimasa On the module structure of rings of integers in p-adic number fields over associated orders. **99b:11132**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99b:11130** *and* **99i:20012**
Snaith, Victor P. *see* **Chinburg, Ted; et al., 99b:11130**
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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

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Washington, Lawrence C. Galois cohomology. (*see* **99k:11004**)

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Kolster, Manfred (*with* Nguyen Quang Do, Thong) Syntomic regulators and special values of p-adic L-functions. (English summary) **99f:11151**
— *see also* **Chinburg, Ted; et al., 99g:11140**
Kramer, Jürg Über den Beweis der Fermat-Vermutung. II. (German summary) [On the proof of the Fermat conjecture. II] **99d:11061**
Lorenz, Falko Ein Scholion zum Satz 90 von Hilbert. (German summary) [A comment on Hilbert's 90th theorem] **99i:12004**
Morishita, Masanori Hasse principle and approximation theorems for homogeneous spaces. **99e:11047**
Nguyen Quang Do, Thong *see* **Kolster, Manfred, 99f:11151**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99g:11140**
Park, Hwasin Relations among Shafarevich-Tate groups. **99f:11071**
Ramakrishna, Ravi Deforming an even representation. **99h:11128**
— Deforming an even representation. II. Raising the level. (English summary) **99h:11129**
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Tilouine, Jacques ★ Deformations of Galois representations and Hecke algebras. **99i:11038**
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11R37 Class field theory

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Boston, Nigel (*with* Leedham-Green, Charles) Counterexamples to a conjecture of Lemmermeyer. (English summary) **99m:11131**
Cohen, Henri (*with* Diaz y Diaz, F.; Olivier, Michel) Tables of octic fields with a quartic subfield. (English summary) **99m:11132**
Daberkow, M. (*with* Pohst, Michael E.) On the computation of Hilbert class fields. (English summary) **99h:11130**
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Gerth, Frank, III On 2-class field towers for quadratic number fields with 2-class group of type (2, 2). **99a:11130**
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Samuel, Pierre Théorie du corps de classes local selon G. P. Hochschild. [Local class field theory according to G. P. Hochschild] (*see* **99f:00033**)
Scharaschkin, Victor The Hasse principle modulo nth powers. **99k:11179**
Serre, Jean-Pierre Théorie du corps de classes pour les revêtements non ramifiés de variétés algébriques (d'après S. Lang). [Theory of class fields for nonramified coverings of algebraic varieties (after S. Lang)] (*see* **99f:00035**)
(Taussky-Todd, Olga) *see* **Kisilevsky, H., 99g:11134**
Weil, André Sur la théorie du corps de classes. [On the theory of class groups] (*see* **99f:00034**)

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Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's association with radicals in India. **99a:11053**
Blasius, Don Period relations and critical values of L-functions. **99c:11054**
Chan, Heng Huat Ramanujan-Weber class invariant G_n and Watson's empirical process. (English summary) **99j:11134**
— *see also* **Berndt, Bruce C.; et al., 99a:11053**
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Hill, Richard Michael Space forms and higher metaplectic groups. **99c:11142**
Itoh, Tsuyoshi A construction of normal bases over the Hilbert p-class field of imaginary quadratic fields. **99f:11146**
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Lenstra, Hendrik W., Jr. (*with* Stevenhagen, P.) Class field theory and the first case of Fermat's last theorem. (*see* **99k:11004**)
Niederreiter, Harald (*with* Xing, Chaoping) Global function fields with many rational places over the quinary field. II. **99i:11105**
Ono, Takashi A note on Shafarevich-Tate sets for finite groups. **99g:11132**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

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Knapp, A. W. Introduction to the Langlands program. **99d:11123**
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— Representations of abelian algebraic groups. **99b:11125**
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Ash, Avner (*with* Manjrekar, Rajesh) Galois representations and Hecke operators associated with the mod-p cohomology of $\mathrm{GL}(m(p-1), \mathbf{Z})$. **99e:11066**
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Flicker, Yuval Z. Report on the fundamental lemma for GL(4) and GSp(2). **99g:11067**
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Gross, Benedict H. Modular forms (mod p) and Galois representations. **99j:11058**
Jacquet, Hervé (*with* Ye, Yangbo) Germs of Kloosterman integrals for GL(3). (English summary) **99j:11053**
Lafforgue, Laurent Chtoucas de Drinfeld et conjecture de Ramanujan-Petersson. [Drinfel'd shtukas and the Ramanujan-Petersson conjecture] **99c:11072**
Lapid, Erez M. (*with* Rogawski, Jonathan) On twists of cuspidal representations of GL(2). (English summary) **99d:11055**
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van der Put, Marius (*with* Reversat, Marc) Automorphic forms and Drinfeld's reciprocity law. **99j:11059**
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— *see also* **Jacquet, Hervé, 99j:11053**

11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

Byeon, Dongho Special values of zeta functions of the simplest cubic fields and their applications. **99c:11141**
Godement, Roger Les travaux de E. Hecke. I. [The works of E. Hecke. I] (*see* **99f:00034**)
— Les travaux de Hecke. II. [The works of Hecke. II] (*see* **99f:00034**)
Hayes, David R. Base change for the conjecture of Brumer-Stark. (English summary) **99h:11131**
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Motohashi, Yoichi The mean square of Dedekind zeta-functions of quadratic number fields. (English summary) **99g:11136**
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Solomon, David Algebraic properties of Shintani's generating functions: Dedekind sums and cocycles on $\mathrm{PGL}_2(\mathbf{Q})$. (English summary) **99g:11137**
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Huber, Annette (*with* Wildeshaus, Jörg) Classical motivic polylogarithm according to Beilinson and Deligne. (English summary) **99k:19001a**
— (*with* Wildeshaus, Jörg) Correction to the paper: "Classical motivic polylogarithm according to Beilinson and Deligne". (English summary) **99k:19001b**
Kolster, Manfred (*with* Nguyen Quang Do, Thong) Syntomic regulators and special values of p-adic L-functions. (English summary) **99f:11151**
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Shanks, Daniel C. (*with* Sime, Patrick J.; Washington, Lawrence C.) Zeros of 2-adic L-functions and congruences for class numbers and fundamental units. (English summary) **99i:11101**
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Thunder, Jeffrey Lin Higher-dimensional analogs of Hermite's constant. **99f:11082**
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11R44 Distribution of prime ideals [see also 11N05]

Coleman, M. D. The normal density of prime ideals in small regions. (English summary) **99a:11132**
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11R45 Density theorems

Rajan, C. S. Distribution of values of Hecke characters of infinite order. (English summary) **99e:11142**
Thuswaldner, Jörg Maximilian The sum of digits function in number fields: distribution in residue classes. (English summary) **99m:11134**

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Palfrey, Thomas C. Density theorems for reciprocity equivalences. (English summary) **99m:11051**
Rajan, C. S. On strong multiplicity one for l-adic representations. **99c:11064**

11R47 Other analytic theory [see also 11Nxx]

Chan, Heng Huat Ramanujan-Weber class invariant G_n and Watson's empirical process. (English summary) **99j:11134**
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Schinzel, Andrzej Hilbert's Twelfth Problem. (Polish. English summary) (*see* **99b:01001**)

11R52 Quaternion and other division algebras: arithmetic, zeta functions

Jun, Sungtae On the certain primitive orders. (English summary) **99b:11126**

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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

Elkies, Noam D. (*with* Gross, Benedict H.) Embeddings into the integral octonions. **99g:11138**
Fukaya, Takako Hasse zeta functions of noncommutative rings. (Japanese) (*see* **99a:11003**)
Godement, Roger Les fonctions ζ des algèbres simples. I. [The ζ-functions of simple algebras. I] (*see* **99f:00037**)
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Fukaya, Takako Hasse zeta functions of non-commutative rings. **99i:11078**
Jiang, Dihua (*with* Rallis, Stephen) Fourier coefficients of Eisenstein series of the exceptional group of type G_2. (English summary) **99d:11054**
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Wolfskill, John Comparing the unit groups of two orders in a number field. (English summary) **99h:11126**

11R56 Adèle rings and groups

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Ikeda, Masatoshi G. Cahit Arf's contribution to algebraic number theory and related fields. **99f:11001**
Roy, Damien (*with* Thunder, Jeffrey Lin) Addendum and erratum to: "An absolute Siegel's lemma" [J. Reine Angew. Math. **476** (1996), 1–26; MR 97h:11075]. **99m:11078**
Thunder, Jeffrey Lin Higher-dimensional analogs of Hermite's constant. **99f:11082**
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11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Angles, Bruno On the class group problem for function fields. (English summary) **99d:11125**
Bae, Sunghan (*with* Jung, Hwan Yup) Elliptic modules of rank one and class fields of function fields. (English summary) **99h:11132**
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Chevalley, Claude L'hypothèse de Riemann pour les corps de fonctions algébriques de caractéristique p. I. [The Riemann hypothesis for algebraic function fields of characteristic p. I] (*see* **99f:00033**)
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Feng, Keqin (*with* Hu, Weiqun) On real quadratic function fields of Chowla type with ideal class number one. (English summary) **99h:11133**
Hsu, Chih-Nung Estimates for coefficients of L-functions for function fields. (English summary) **99m:11136**
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Ichimura, Humio On the class numbers of the maximal real subfields of cyclotomic function fields. (English summary) **99e:11143**
— On the class numbers of the maximal real subfields of cyclotomic function fields. II. (English summary) **99h:11134**
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Niederreiter, Harald (*with* Xing, Chaoping) Global function fields with many rational places over the quinary field. **99a:11133**
— (*with* Xing, Chaoping) Global function fields with many rational places over the quinary field. II. **99i:11105**
— (*with* Xing, Chaoping) Global function fields with many rational places and their applications. (English summary) **99m:11137**
Ose, David T. Deformations for function fields. (English summary) **99i:11106**
Özbudak, Ferruh (*with* Thomas, Michael^2) A note on towers of function fields over finite fields. (English summary) **99f:11150**
Paulus, Sachar (*with* Rück, Hans-Georg) Real and imaginary quadratic representations of hyperelliptic function fields. (English summary) **99i:11107**
Pellikaan, Ruud (*with* Stichtenoth, Henning; Torres, Fernando) Weierstrass semigroups in an asymptotically good tower of function fields. (English summary) **99g:11139**
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Bae, Sunghan (*with* Kang, Pyung-Lyun) Elliptic units and class fields of global function fields. (English summary) **99b:11063**
Fried, Michael D. (*with* Kopeliovich, Yaacov) Applying modular towers to the inverse Galois problem. (English summary) **99k:12008**
Gekeler, Ernst-Ulrich Some new results on modular forms for $GL(2, \mathbf{F}_q[T])$. **99j:11067**
Hsu, Chih-Nung Applications of the large sieve inequality for $\mathbf{F}_q[T]$. (English summary) **99d:11130**
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Müller, Volker² (*with* Stein, Andreas; Thiel, Christoph) Computing discrete logarithms in real quadratic congruence function fields of large genus. (English summary) **99i:11119**
Niederreiter, Harald (*with* Xing, Chaoping) Drinfeld modules of rank 1 and algebraic curves with many rational points. II. **99d:11064**
— (*with* Xing, Chaoping) Nets, (t, s)-sequences, and algebraic geometry. **99k:11121**
Pacheco, Amílcar Integral points on elliptic curves over function fields of positive characteristic. (English summary) **99j:11064**
Shlapentokh, Alexandra Diophantine definability over holomorphy rings of algebraic function fields with infinite number of primes allowed as poles. (English summary) **99k:11190**
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11R65 Class groups and Picard groups of orders

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Snaith, Victor P. Hecke algebras and class-group invariants. (English summary) **99b:11129**

Items with secondary classifications in 11R65

Angles, Bruno On the class group problem for function fields. (English summary) **99d:11125**
Crainic, Marius (*with* Østvær, Paul Arne) On two-primary algebraic K-theory of quadratic number rings with focus on K_2. **99j:11138**
Greither, Cornelius An equivariant version of an index formula of Fröhlich and McCulloh. (English summary) **99c:11135**
Hutchinson, Tim A conjectural extension of the Gross-Zagier formula on singular moduli. (English summary) **99j:11131**
Kolster, Manfred (*with* Laubenbacher, Reinhard C.) On higher class groups of orders. **99i:19002**
Laubenbacher, Reinhard C. *see* **Kolster, Manfred**, **99i:19002**
Mollin, R. A. Jacobi symbols, ambiguous ideals, and continued fractions. **99e:11136**
Østvær, Paul Arne *see* **Crainic, Marius**, **99j:11138**

11R70 K-theory of global fields [see also 19Fxx]

Browkin, Jerzy (*with* Gangl, Herbert) Tame and wild kernels of quadratic imaginary number fields. (English summary) **99c:11144**
Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, Victor P.) Quaternionic exercises in K-theory Galois module structure. (English summary) **99b:11130**
— (*with* Kolster, Manfred; Pappas, Georgios; Snaith, Victor P.) Galois structure of K-groups of rings of integers. (English summary) **99g:11140**
Crainic, Marius (*with* Østvær, Paul Arne) On two-primary algebraic K-theory of quadratic number rings with focus on K_2. **99j:11138**
Gangl, Herbert *see* **Browkin, Jerzy**, **99c:11144**
Kolster, Manfred (*with* Nguyen Quang Do, Thong) Syntomic regulators and special values of p-adic L-functions. (English summary) **99f:11151**
— *see also* **Chinburg, Ted; et al.**, **99b:11130** *and* **99g:11140**
Nguyen Quang Do, Thong *see* **Kolster, Manfred**, **99f:11151**
Østvær, Paul Arne *see* **Crainic, Marius**, **99j:11138**
Pappas, Georgios *see* **Chinburg, Ted; et al.**, **99b:11130** *and* **99g:11140**
Snaith, Victor P. *see* **Chinburg, Ted; et al.**, **99b:11130** *and* **99g:11140**

Items with secondary classifications in 11R70

Dwyer, William G. (*with* Mitchell, Stephen A.) On the K-theory spectrum of a ring of algebraic integers. (English summary) **99i:19003**
Goncharov, A. B. Volumes of hyperbolic manifolds and mixed Tate motives. **99i:19004**
Huber, Annette (*with* Wildeshaus, Jörg) Classical motivic polylogarithm according to Beilinson and Deligne. (English summary) **99k:19001a**
— (*with* Wildeshaus, Jörg) Correction to the paper: "Classical motivic polylogarithm according to Beilinson and Deligne". (English summary) **99k:19001b**
Mitchell, Stephen A. Units and general linear group cohomology for a ring of algebraic integers. **99k:19002**
— *see also* **Dwyer, William G.**, **99i:19003**
Wildeshaus, Jörg *see* **Huber, Annette**, **99k:19001a** *and* **99k:19001b**

11R80 Totally real and totally positive fields [see also 12J15]

Items with secondary classifications in 11R80

Greither, Cornelius The structure of some minus class groups, and Chinburg's third conjecture for abelian fields. **99f:11143**
Minemura, Kenji On totally real cubic fields whose unit groups are of type $\{\theta + r, \theta + s\}$. **99m:11126**
Solomon, David Algebraic properties of Shintani's generating functions: Dedekind sums and cocycles on $PGL_2(\mathbf{Q})$. (English summary) **99g:11137**

11R99 None of the above, but in this section

Items with secondary classifications in 11R99

Barsky, Daniel (*with* Bézivin, Jean-Paul; Schinzel, Andrzej) Une caractérisation arithmétique de suites récurrentes linéaires. (French summary) [An arithmetical characterization of linear recurrence sequences] **99j:11011**
Bézivin, Jean-Paul *see* **Barsky, Daniel; et al.**, **99j:11011**
Cilleruelo, Javier (*with* Jiménez-Urroz, Jorge) Divisors in a Dedekind domain. **99f:11128**
García-Roig, J.-L. (*with* Salillas, J.) On a conditional Cauchy functional equation involving powers of finite and number fields. (English summary) **99d:39028**
Jiménez-Urroz, Jorge *see* **Cilleruelo, Javier**, **99f:11128**
Reznikov, Alexander Three-manifolds class field theory (homology of coverings for a nonvirtually b_1-positive manifold). **99b:57041**
Salillas, J. *see* **García-Roig, J.-L.**, **99d:39028**
Schinzel, Andrzej *see* **Barsky, Daniel; et al.**, **99j:11011**

11Sxx Algebraic number theory: local and p-adic fields

Items with secondary classifications in 11Sxx

Items listed otherwise than by author

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11S05 Polynomials

Poonen, Bjorn Zeros of sparse polynomials over local fields of characteristic p. **99f:11152**

Items with secondary classifications in 11S05

Narkiewicz, Władysław (*with* Pezda, Tadeusz) Finite polynomial orbits in finitely generated domains. (English summary) **99b:11117**
— Arithmetics of dynamical systems: a survey. (English summary) **99b:11018**
Pezda, Tadeusz *see* **Narkiewicz, Władysław**, **99b:11117**

11S15 Ramification and extension theory

Alexandru, Victor (*with* Popescu, Nicolae; Zaharescu, Alexandru) On the closed subfields of $\mathbf{C}_p$. **99k:11182**
Fesenko, Ivan B. On deeply ramified extensions. (English summary) **99j:11139**
Laubie, F. (*with* Saïne, M.) Ramification of some automorphisms of local fields. (English summary) **99h:11135**
Pak, G. K. *see* **Vostokov, S. V.**, (**99k:00020**)
Pineda Ruelas, Mario On the equation $f(t) = t^m - t^{m-1} - x \in k(x)[t]$. (English summary) **99k:11183**
Popescu, Nicolae *see* **Alexandru, Victor; et al.**, **99k:11182**
Saïne, M. *see* **Laubie, F.**, **99h:11135**
Vostokov, S. V. (*with* Pak, G. K.) Construction of a normal basis for the ring of integers in an extension without higher ramification of an n-dimensional local field. (Russian. Russian summary) (*see* **99k:00020**)
Yamazaki, Takao Reduced norm map of division algebras over complete discrete valuation fields of certain type. (English summary) **99b:11131**
— On Swan conductors for Brauer groups of curves over local fields. (English summary) **99h:11136**
Zaharescu, Alexandru *see* **Alexandru, Victor; et al.**, **99k:11182**

Items with secondary classifications in 11S15

(Arf, Cahit) *see* **Ikeda, Masatoshi G.**, **99f:11001**
Cohen, Stephen D. (*with* Movahhedi, A.; Salinier, A.) Double transitivity of Galois groups of trinomials. **99c:11139**
Elder, Gove Griffith Galois module structure of ambiguous ideals in biquadratic extensions. (English summary) **99k:11178**
Ikeda, Masatoshi G. Cahit Arf's contribution to algebraic number theory and related fields. **99f:11001**
Movahhedi, A. *see* **Cohen, Stephen D.; et al.**, **99c:11139**
Salinier, A. *see* **Cohen, Stephen D.; et al.**, **99c:11139**
Van Geel, J. (*with* Yanchevskiĭ, V. I.) Indices of hyperelliptic curves over p-adic fields. (English summary) **99e:11084**
Volf, Aurelian Claudiu Sur une conjecture de Deligne et Henniart sur les constantes locales d'équations fonctionnelles des fonctions L. [On a conjecture of Deligne and Henniart about the local constants of functional equations of L-functions] **99i:11108**
Yanchevskiĭ, V. I. *see* **Van Geel, J.**, **99e:11084**
Yasuda, Kumi Additive processes on local fields. (English summary) **99b:60051**

11S20 Galois theory

Bekker, Boris (*with* Bondarko, M.; Vostokov, S. V.) Shafarevich bases in topological K-groups. (Russian. Russian summary) **99e:11145**
Bondarko, M. *see* **Bekker, Boris; et al.**, **99e:11145**
Chi, Wen-Chen (*with* Li, Anly) Groups of continuous characters and Brauer groups. (English summary) **99j:11140**
Li, Anly *see* **Chi, Wen-Chen**, **99j:11140**
Vostokov, S. V. *see* **Bekker, Boris; et al.**, **99e:11145**

Items with secondary classifications in 11S20

Byott, Nigel P. Associated orders of certain extensions arising from Lubin-Tate formal groups. (English and French summaries) **99d:11126**
Haran, Dan (*with* Jarden, Moshe) Regular split embedding problems over function fields of one variable over ample fields. **99h:12005**
Jarden, Moshe *see* **Haran, Dan**, **99h:12005**
Laubie, F. (*with* Saïne, M.) Ramification of some automorphisms of local fields. (English summary) **99h:11135**

Prasad, Dipendra Some remarks on representations of a division algebra and of the Galois group of a local field. (English summary) **99m:11138**
Saïne, M. *see* **Laubie, F., 99h:11135**

11S23 Integral representations

Byott, Nigel P. Associated orders of certain extensions arising from Lubin-Tate formal groups. (English and French summaries) **99d:11126**
Cherbonnier, Frédéric (*with* Colmez, Pierre) Théorie d'Iwasawa des représentations p-adiques d'un corps local. [Iwasawa theory of p-adic representations of a local field] **99g:11141**
Colmez, Pierre *see* **Cherbonnier, Frédéric, 99g:11141**
Elder, Gove Griffith Corrigendum: "Galois module structure of ideals in wildly ramified cyclic extensions of degree p^2" [Ann. Inst. Fourier (Grenoble) **45** (1995), no. 3, 625–647; MR 96d:11125]. **99c:11145**
Lettl, Günter Relative Galois module structure of integers of local abelian fields. **99d:11127**
Miyata, Yoshimasa On the module structure of rings of integers in p-adic number fields over associated orders. **99b:11132**

Items with secondary classifications in 11S23

Chan, Shih-Ping Galois module structure of non-Kummer extensions. (English summary) **99a:11127**
Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, Victor P.) Galois structure of K-groups of rings of integers. (English summary) **99g:11140**
Kolster, Manfred *see* **Chinburg, Ted; et al., 99g:11140**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99g:11140**
Snaith, Victor P. *see* **Chinburg, Ted; et al., 99g:11140**

11S25 Galois cohomology [see also 12Gxx, 16H05]

Items with secondary classifications in 11S25

Cherbonnier, Frédéric (*with* Colmez, Pierre) Théorie d'Iwasawa des représentations p-adiques d'un corps local. [Iwasawa theory of p-adic representations of a local field] **99g:11141**
Colmez, Pierre *see* **Cherbonnier, Frédéric, 99g:11141**
Kottwitz, Robert E. Isocrystals with additional structure. II. (English summary) **99e:20061**
Perrin-Riou, Bernadette p-adic L functions and trivial zeroes. (English summary) **99g:11085**
Van Geel, J. (*with* Yanchevskiĭ, V. I.) Indices of hyperelliptic curves over p-adic fields. (English summary) **99e:11084**
Yamazaki, Takao Reduced norm map of division algebras over complete discrete valuation fields of certain type. (English summary) **99b:11131**
Yanchevskiĭ, V. I. *see* **Van Geel, J., 99e:11084**

11S31 Class field theory; p-adic formal groups [see also 14L05]

Andrianov, Yu. A. On two-dimensional local fields. (Russian. Russian summary) (*see* **99k:00020**)
Demchenko, O. V. New relationships between formal Lubin-Tate groups and formal Honda groups. (Russian. Russian summary) **99k:11184**
Edemskiĭ, V. A. On the group of points of a formal group as a Galois module. (Russian. Russian summary) (*see* **99k:00020**)
Fesenko, Ivan B. Abelian extensions of complete discrete valuation fields. **99d:11128**
Krasner, Marc Généralisations non-abéliennes de la théorie locale des corps de classes. [Nonabelian generalizations of the local theory of class fields] (*see* **99f:00033**)

Items with secondary classifications in 11S31

Bekker, Boris (*with* Bondarko, M.; Vostokov, S. V.) Shafarevich bases in topological K-groups. (Russian. Russian summary) **99e:11145**
Bondarko, M. *see* **Bekker, Boris; et al., 99e:11145**
Byott, Nigel P. Associated orders of certain extensions arising from Lubin-Tate formal groups. (English and French summaries) **99d:11126**
Geyer, Wulf-Dieter (*with* Jarden, Moshe) Bounded realization of l-groups over global fields. The method of Scholz and Reichardt. (English summary) **99d:12001**
Green, Barry (*with* Matignon, Michel) Order p automorphisms of the open disc of a p-adic field. (English summary) **99j:13017**
Jarden, Moshe *see* **Geyer, Wulf-Dieter, 99d:12001**
Matignon, Michel *see* **Green, Barry, 99j:13017**
Vostokov, S. V. *see* **Bekker, Boris; et al., 99e:11145**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Volf, Aurelian Claudiu Sur une conjecture de Deligne et Henniart sur les constantes locales d'équations fonctionnelles des fonctions L. [On a conjecture of Deligne and Henniart about the local constants of functional equations of L-functions] **99i:11108**

Items with secondary classifications in 11S37

Arthur, James Canonical normalization of weighted characters and a transfer conjecture. **99g:22020**
Broussous, Paul Extension du formalisme de Bushnell et Kutzko au cas d'une algèbre à division. [Extension of the Bushnell-Kutzko formalism to the case of a division algebra] **99k:22025**
Bushnell, Colin J. (*with* Henniart, Guy M.; Kutzko, Philip C.) Local Rankin-Selberg convolutions for GL_n: explicit conductor formula. **99h:22022**
Courtès, François Sur le transfert des intégrales orbitales pour les groupes linéaires (cas p-adique). (English and French summaries) [Transfer of orbital integrals for linear groups (p-adic case)] **99g:22018**
Flicker, Yuval Z. Elementary proof of the fundamental lemma for a unitary group. (English summary) **99e:22020**
Gross, Benedict H. On the motive of G and the principal homomorphism $SL_2 \to \hat{G}$. (English summary) **99d:20077**
Henniart, Guy M. *see* **Bushnell, Colin J.; et al., 99h:22022**
Knapp, A. W. Introduction to the Langlands program. **99d:11123**
Kottwitz, Robert E. Harmonic analysis on semisimple p-adic Lie algebras. (English summary) **99j:22015**
Kutzko, Philip C. *see* **Bushnell, Colin J.; et al., 99h:22022**
Manderscheid, David Quadratic base change for p-adic SL(2) as a theta correspondence. I. Occurrence. (English summary) **99j:22026**
Murnaghan, Fiona (*with* Repka, Joe) Reducibility of some induced representations of p-adic unitary groups. (English summary) **99g:22019**
Procter, Kerrigan Parabolic induction via Hecke algebras and the Zelevinsky duality conjecture. **99h:22025**
Repka, Joe *see* **Murnaghan, Fiona, 99g:22019**
Watanabe, Takao An introduction to the Gross-Prasad conjecture. (Japanese) **99c:22029**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Deitmar, Anton Erratum to: "Geometric zeta functions on p-adic groups" [Math. Japon. **47** (1998), no. 1, 1–17; MR 98m:11130]. **99f:11153**
Denef, Jan (*with* Jacobs, Philippe) On the vanishing of principal value integrals. (English and French summaries) **99h:11137**
Ikeda, Tamotsu On some functional equation of a prehomogeneous space of symmetric matrices. (*see* **99a:11006**)
Jacobs, Philippe *see* **Denef, Jan, 99h:11137**
Jang, Young Ho An asymptotic expansion of the p-adic Green function. (English summary) **99g:11142**
Nguyễn Minh Chu'o'ng (*with* Nguyen Van Co) Multidimensional p-adic Green function. (English summary) **99i:11109**
Nguyen Van Co *see* **Nguyễn Minh Chu'o'ng, 99i:11109**
Romanov, R. V. (*with* Rudin, G. E.) Scattering on p-adic graphs. (English summary) **99d:11129**
Rudin, G. E. *see* **Romanov, R. V., 99d:11129**
Washington, Lawrence C. p-adic L-functions and sums of powers. (English summary) **99a:11134**
Weil, André Fonction zêta et distributions. [Zeta functions and distributions] (*see* **99f:00041**)

Items with secondary classifications in 11S40

Blasius, Don Period relations and critical values of L-functions. **99c:11054**
Everest, G. R. *see* **du Sautoy, M. P. F., 99k:11185**
Gunaratne, H. Sunil μ and λ invariants of a p-adic measure. (English summary) **99e:11146**
Hironaka, Yumiko Local zeta functions on Hermitian forms and its application to local densities. (English summary) **99e:11045**
du Sautoy, M. P. F. (*with* Everest, G. R.) Integrating on p-adic Lie groups. (English summary) **99k:11185**
Shanks, Daniel C. (*with* Sime, Patrick J.; Washington, Lawrence C.) Zeros of 2-adic L-functions and congruences for class numbers and fundamental units. (English summary) **99i:11101**
Sime, Patrick J. *see* **Shanks, Daniel C.; et al., 99i:11101**
Solé, Patrick Sato-Tate conjectures and Chebyshev polynomials. (English summary) **99d:11043**
Washington, Lawrence C. *see* **Shanks, Daniel C.; et al., 99i:11101**
Wójcik, Ambroży Linear congruence relations for 2-adic L-series at integers. (English summary) **99j:11132**

11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

Prasad, Dipendra Some remarks on representations of a division algebra and of the Galois group of a local field. (English summary) **99m:11138**

Items with secondary classifications in 11S45

Hatzaras, Y. Hermitian and quadratic forms over crossed-product orders. **99h:11040**

11S70 K-theory of local fields [see also 19Fxx]

Items with secondary classifications in 11S70

Bekker, Boris (*with* Bondarko, M.; Vostokov, S. V.) Shafarevich bases in topological K-groups. (Russian. Russian summary) **99e:11145**
Bondarko, M. *see* **Bekker, Boris; et al., 99e:11145**
Dundas, Bjørn Ian Continuity of K-theory: an example in equal characteristics. (English summary) **99e:19004**
Kurihara, Masato The exponential homomorphisms for the Milnor K-groups and an explicit reciprocity law. (English summary) **99i:19001**
Nakamura, Jinya The construction of Milnor K-groups for certain types of complete discrete valuation fields. (Japanese) (*see* **99d:11001**)
Vostokov, S. V. *see* **Bekker, Boris; et al., 99e:11145**

11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Bruhat, François Intégration p-adique (d'après F. Tomas). [p-adic integration (after F. Tomás)] (*see* **99f:00039**)
Cherry, William A. (*with* Yang, Chung-Chun) Uniqueness of non-Archimedean entire functions sharing sets of values counting multiplicity. (English summary) **99f:11154**
Everest, G. R. *see* **du Sautoy, M. P. F., 99k:11185**

Gunaratne, H. Sunil μ and λ invariants of a p-adic measure. (English summary) **99e:11146**
Jang, Young Ho Algebraic Weyl system and application. (English summary) **99m:11139**
Kim, Yong Sup (*with* Song, Hyeong Kee) On p-adic analogue of hypergeometric series. (English summary) **99m:11140**
Kochubeĭ, A. N. Harmonic oscillator in characteristic p. (English summary) **99f:11155**
du Sautoy, M. P. F. (*with* Everest, G. R.) Integrating on p-adic Lie groups. (English summary) **99k:11185**
Song, Hyeong Kee *see* **Kim, Yong Sup, 99m:11140**
Yang, Chung-Chun *see* **Cherry, William A., 99f:11154**

Items with secondary classifications in 11S80

Bechata, Abdellah Calcul de Weyl p-adique. (English and French summaries) [p-adic Weyl calculus] **99j:22014**
Boutabaa, Abdelbaki (*with* Escassut, Alain; Haddad, Labib) On uniqueness of p-adic entire functions. (English summary) **99j:30051**
Carpentier, Michel Sommes de Kloosterman généralisées: l'équation fonctionnelle. [Generalized Kloosterman sums: the functional equation] **99a:11097**
Cherry, William A. A survey of Nevanlinna theory over non-Archimedean fields. (English summary) **99a:32047**
Denef, Jan (*with* Loeser, François) Motivic Igusa zeta functions. **99j:14021**
Escassut, Alain *see* **Boutabaa, Abdelbaki; et al., 99j:30051**
Haddad, Labib *see* **Boutabaa, Abdelbaki; et al., 99j:30051**
Ikeda, Tamotsu On some functional equation of a prehomogeneous space of symmetric matrices. (*see* **99a:11006**)
Loeser, François *see* **Denef, Jan, 99j:14021**
Nagata, Makoto G-functions and number theory. (Japanese) (*see* **99d:11001**)
Potemine, Igor Yu. Espaces symétriques p-adiques, mesures p-adiques et transformations intégrales. [p-adic symmetric spaces, p-adic measures and integral transformations] **99e:11067**
Rozansky, Lev On p-adic convergence of perturbative invariants of some rational homology spheres. **99i:57038**
Sally, Paul J., Jr. An introduction to p-adic fields, harmonic analysis and the representation theory of SL_2. (English summary) **99m:22007**
Smart, Nigel P. *see* **Woodcock, Christopher F., 99k:11123**
Veys, Willem More congruences for numerical data of an embedded resolution. (English summary) **99e:14017**
Woodcock, Christopher F. (*with* Smart, Nigel P.) p-adic chaos and random number generation. (English summary) **99k:11123**

11S85 Other nonanalytic theory

De Smedt, Stany On Sloane's sequence 1484. **99b:11133**
Vladimirov, V. S. Some problems of analysis on the field of p-adic numbers. (English summary) **99e:11147**

Items with secondary classifications in 11S85

Bruhat, François Intégration p-adique (d'après F. Tomas). [p-adic integration (after F. Tomás)] (*see* **99f:00039**)
Escassut, Alain Dissociated functions and p-adic characters. (English summary) **99m:12013**
Jang, Young Ho Algebraic Weyl system and application. (English summary) **99m:11139**
— ★ Non-Archimedean quantum mechanics. **99c:81002**
Joseph, John A. A chaotic extension of the $3x + 1$ function to $\mathbf{Z}_2[i]$. **99f:11026**
Khrennikov, Andrei Statistical modeling over p-adic number fields. (Russian. English and Russian summaries) **99k:81159**
— p-adic behavior of Bernoulli probabilities. (Russian. Russian summary) **99c:60015**
— p-adic behaviour of Bernoulli probabilities. (English summary) **99d:11136**
Kozyrev, S. V. Free coherent states and distributions on p-adic numbers. (English summary) **99d:81053**
Maller, Michael (*with* Whitehead, Jennifer) Computational complexity over the p-adic numbers. (English summary) **99c:68080**
Voloch, José Felipe Differential operators and interpolation series in power series fields. **99j:13019**
Whitehead, Jennifer *see* **Maller, Michael, 99c:68080**

11S99 None of the above, but in this section

Items with secondary classifications in 11S99

Albeverio, Sergio (*with* Khrennikov, Andrei) A regularization of quantum field Hamiltonians with the aid of p-adic numbers. (English summary) **99f:81117**
Egidi, Lavinia A quantifier elimination for the theory of p-adic numbers. (English summary) **99m:68082**
Khrennikov, Andrei *see* **Albeverio, Sergio, 99f:81117**

11Txx Finite fields and commutative rings (number-theoretic aspects)

Hachenberger, Dirk ★ Finite fields. (English summary) **99c:11146**

Items with secondary classifications in 11Txx

(Mullen, Gary L.) *see* **Finite fields: theory, applications, and algorithms, 99f:11002**
(Mullin, Ronald C.) *see* **Finite fields: theory, applications, and algorithms, 99f:11002**

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Conference:
Finite Fields: Theory, Applications, and Algorithms ★ Finite fields: theory, applications, and algorithms. **99f:11002**
Contemporary Mathematics ★ Finite fields: theory, applications, and algorithms. **99f:11002**
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Reviews in number theory ★ Reviews in number theory. 1984–96. Vol. 5B. **99c:11001e**
Waterloo, ON ★ Finite fields: theory, applications, and algorithms. **99f:11002**

11T06 Polynomials

Aitken, Wayne On value sets of polynomials over a finite field. (English summary) **99h:11138**
Cohen, Stephen D. Polynomial factorisation and an application to regular directed graphs. (English summary) **99h:11139**
Coulter, Robert S. (*with* Matthews, Rex W.) Bent polynomials over finite fields. (English summary) **99a:11135**
Cusick, Thomas W. Value sets of some polynomials over finite fields $\mathrm{GF}(2^{2m})$. (English summary) **99a:11136**
Dai, Zongduo *see* **Gong, Guang, 99a:11137**
Gao, Shu Hong (*with* Panario, Daniel) Tests and constructions of irreducible polynomials over finite fields. (English summary) **99m:11141**
— (*with* Howell, Jason; Panario, Daniel) Irreducible polynomials of given forms. (English summary) **99g:11143**
Gomez-Calderon, Javier The third-order factorable core of polynomials over finite fields. (English summary) **99c:11147**
Gong, Guang (*with* Dai, Zongduo) Construction of SAC permutations. (English summary) **99a:11137**
Henderson, Marie A note on the permutation behaviour of the Dickson polynomials of the second kind. (English summary) **99a:11138**
— (*with* Matthews, Rex W.) Composition behaviour of sub-linearised polynomials over a finite field. (English summary) **99h:11140**
Hong, Shao Fang Additive characters and orthogonal systems of polynomials in several indeterminates over residue class rings. (English summary) **99e:11148**
— Orthogonal systems of multivariate polynomials over the ring $\mathbf{Z}/m\mathbf{Z}$. (Chinese. English and Chinese summaries) **99h:11141**
Howell, Jason *see* **Gao, Shu Hong; et al., 99g:11143**
Hwang, Hsien-Kuei A Poisson $*$ negative binomial convolution law for random polynomials over finite fields. (English summary) **99e:11149**
Knopfmacher, Arnold (*with* Ridley, J. N.; Mullen, Gary L.) Nets and sequences obtained from irreducible polynomials over finite fields. (English summary) **99m:11142**
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Fomenko, M. N. On some L-functions of a polynomial ring over a finite field. (Russian. Russian summary) **99c:11111**
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Laohakosol, Vichian Bases for integer-valued polynomials in a Galois field. **99m:11145**
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— *see also* **Berndt, Bruce C.; et al., 99d:11092**
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Williams, Kenneth S. *see* **Berndt, Bruce C.; et al., 99d:11092**

11T23 Exponential sums

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— Further evaluations of Weil sums. **99i:11113**
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Coulter, Robert S. Explicit evaluations of some Weil sums. **99c:11149**
— Further evaluations of Weil sums. **99i:11113**
Denef, Jan (*with* Gyoja, Akihiko) Character sums associated to prehomogeneous vector spaces. (English summary) **99k:11128**
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— *see also* **Berndt, Bruce C.; et al., 99d:11092**
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— *see also* **Denef, Jan, 99k:11128**
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Kim, Dae San Gauss sums for $O(2n+1, q)$. (English summary) **99a:11141**
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Winterhof, Arne On Waring's problem in finite fields. **99k:11154**
— On the distribution of powers in finite fields. (English summary) **99b:11136**
— Representations of the character groups of $\mathbf{F}_q$. (English summary) **99b:11137**

11T30 Structure theory

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11T55 Arithmetic theory of polynomial rings over finite fields

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— On Carmichael polynomials. (English summary) **99i:11116**
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11T71 Algebraic coding theory; cryptography

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Cherdieu, J. P. (*with* Delcroix, A.; Mado, J. C.; Mercier, Dany-Jack) Weight distribution of the Hermitian forms codes. (English summary) **99d:11131**
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Kanwar, Pramod (*with* López-Permouth, Sergio R.) Cyclic codes over the integers modulo p^m. (English summary) **99c:11151**
Koblitz, Neal *see* **Buhler, Joe, 99j:11145**
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Bender, Renet Lovorn (*with* Pomerance, Carl) Rigorous discrete logarithm computations in finite fields via smooth polynomials. **99c:11156**
de Boer, Mario A. The generalized Hamming weights of some hyperelliptic codes. (English summary) **99c:94056**
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Cazaran, Jilyana (*with* Kelarev, Andrei V.) Generators and weights of polynomial codes. (English summary) **99b:94055**

Cohen, Gérard Denis (*with* Honkala, Iiro; Litsyn, Simon; Lobstein, Antoine) ★Covering codes. **99b:94059**
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Maurer, Ueli M. (*with* Wolf, Stefan) Diffie-Hellman oracles. (English summary) **99k:94039**
Menezes, Alfred J. (*with* van Oorschot, Paul C.; Vanstone, Scott A.) ★Handbook of applied cryptography. **99g:94015**
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You, Hong (*with* Nan, Ji Zhu) Using normal form of matrices over finite fields to construct Cartesian authentication codes. (English and Chinese summaries) **99i:94058**
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11T99 None of the above, but in this section

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Beintema, Mark B. (*with* Bonn, Jeffrey T.; Fitzgerald, Robert W.; Yucas, Joseph L.) Orderings of finite fields and balanced tournaments. **99d:05037**
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Cusick, Thomas W. Finite vector spaces and certain lattices. (English summary) **99b:11073**
Eliahou, Shalom (*with* Kervaire, Michel A.) Sumsets in vector spaces over finite fields. (English summary) **99d:11020**
Fitzgerald, Robert W. *see* **Beintema, Mark B.; et al., 99d:05037**
García-Roig, J.-L. (*with* Salillas, J.) On a conditional Cauchy functional equation involving powers of finite and number fields. (English summary) **99d:39028**
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11Uxx Connections with logic

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11U05 Decidability [see also 03B25]

Bès, Alexis On Pascal triangles modulo a prime power. (English summary) **99a:11144**
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— Elementary definability from Pascal's triangle modulo p and the set of eth powers. (English summary) **99e:11152**
Richardson, Daniel How to recognize zero. (English summary) **99e:11153**
Shlapentokh, Alexandra Diophantine definability over holomorphy rings of algebraic function fields with infinite number of primes allowed as poles. (English summary) **99k:11190**

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Adamowicz, Zofia Hilbert's Tenth Problem. (Polish. English summary) (*see* **99b:01001**)
Bès, Alexis (*with* Korec, Ivan) Definability within structures related to Pascal's triangle modulo an integer. (English summary) **99j:03007**
Honkala, Juha On number systems with finite degree of ambiguity. (English summary) **99g:68113**
Kharlampovich, Olga (*with* Myasnikov, A. G.) Equations in a free **Q**-group. **99j:20039a**
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Korec, Ivan Undecidability and uniform definability in classes of structures related to Pascal triangles modulo n. (English summary) **99a:03008**
— *see also* **Bès, Alexis, 99j:03007**
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Myasnikov, A. G. *see* **Kharlampovich, Olga, 99j:20039a** *and* **99j:20039b**
Richard, Denis *see* **Zhu, Hong[1]; et al., 99f:03060**
Videla, Carlos R. On the constructible numbers. (English summary) **99f:03047**
Zhu, Hong[1] (*with* Lu, Xian Jie; Richard, Denis) Undecidability of arithmetical structures. (Chinese. Chinese summary) **99f:03060**

11U07 Ultraproducts [see also 03C20]

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Terjanian, Guy Équations diophantiennes p-adiques (d'après J. Ax et S. Kochen). [p-adic Diophantine equations (after J. Ax and S. Kochen)] (*see* **99f:00041**)

11U09 Model theory [see also 03Cxx]

Poizat, Bruno H.L.M. (Hrushovski-Lang-Mordell). (French. French summary) **99c:11154**

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(Bouscaren, Elisabeth) *see* **Model theory and algebraic geometry, 99k:03032**
Cornelissen, Gunther Stockage diophantien et hypothèse *abc* généralisée. (English and French summaries) [Diophantine storing and the generalized *abc*-hypothesis] **99i:03036**
van den Dries, Lou (*with* Macintyre, Angus; Marker, David) Logarithmic-exponential power series. (English summary) **99d:03063**
(Hrushovski, E.) *see* **Model theory and algebraic geometry, 99k:03032**
Korec, Ivan Theories of generalized Pascal triangles. **99c:11153**
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Macintyre, Angus *see* **van den Dries, Lou; et al., 99d:03063**
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Scanlon, Thomas Warren The *abc* theorem for commutative algebraic groups in characteristic p. **99b:11062**
Wang, Shi Qiang The Goldbach 3-primes property for polynomial rings over certain infinite fields. (English summary) **99k:11158**

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11U10 Nonstandard arithmetic [see also 03H15]

Items with secondary classifications in 11U10

Hsu, Leetsch Charles (*with* Wang, Jun[1]) Some Möbius-type functions and inversions constructed via difference operators. (English summary) **99g:11010**
Wang, Jun[1] *see* **Hsu, Leetsch Charles**, **99g:11010**

11U99 None of the above, but in this section

Items with secondary classifications in 11U99

Aichinger, Erhard Local polynomial functions on the integers. (Italian summary) **99f:13009**
Lemire, Denis Décompositions successives de la forme normale d'un surréel et généralisation des ε-nombres. (English and French summaries) [Successive decompositions of the normal form of a surreal number and generalization of ε-numbers] **99b:04001**

11Yxx Computational number theory [see also 11–04]

Items with secondary classifications in 11Yxx

Items listed otherwise than by author

Reviews in number theory ★ Reviews in number theory. 1984–96. Vol. 5B. **99c:11001e**

11Y05 Factorization

Brent, Richard P. Factorization of the tenth Fermat number. (English summary) **99e:11154**
Lucarelli, Vincent On factoring n with the b-algorithm. **99i:11117**
Semaev, Igor A. A generalization of the number field sieve. (English summary) **99j:11146**

Items with secondary classifications in 11Y05

Coppersmith, Don Small solutions to polynomial equations, and low exponent RSA vulnerabilities. (English summary) **99b:94027**
Dubner, Harvey (*with* Keller, Wilfrid) New Fibonacci and Lucas primes. (English summary) **99c:11008**
Hong, Shao Fang *see* **Sun, Qi**, **99g:11014**
Keller, Wilfrid *see* **Dubner, Harvey**, **99c:11008**
Sun, Qi (*with* Hong, Shao Fang) Aurifeuillian factorizations of $q^q \pm 1$ ($q = p^n$). (Chinese. English and Chinese summaries) **99g:11014**

11Y11 Primality

Caldwell, Chris K. Unique (period) primes and the factorization of cyclotomic polynomials minus one. (English summary) **99b:11139**
Gashkov, S. B. Simplified justification of the probabilistic Miller-Rabin test for primality. (Russian. Russian summary) **99k:11191**
More, Willi The LD probable prime test. (English summary) **99h:11145**
Pi, Xin Ming Searching for generalized Fermat primes. (Chinese. English and Chinese summaries) **99i:11118**
Vasilenko, O. N. Some algorithms for constructing large prime numbers. (Russian) **99c:11155**

Items with secondary classifications in 11Y11

Berrizbeitia, Pedro (*with* Berry, T. G.) Cubic reciprocity and generalised Lucas-Lehmer tests for primality of $A \cdot 3^n \pm 1$. (English summary) **99j:11006**
Berry, T. G. *see* **Berrizbeitia, Pedro**, **99j:11006**
Dubner, Harvey (*with* Keller, Wilfrid) New Fibonacci and Lucas primes. (English summary) **99c:11008**
Indlekofer, Karl-Heinz (*with* Járai, Antal) Largest known twin primes and Sophie Germain primes. (English summary) **99k:11013**
Járai, Antal *see* **Indlekofer, Karl-Heinz**, **99k:11013**
Keller, Wilfrid *see* **Dubner, Harvey**, **99c:11008**
Müller, Siguna M. S. On strong Lucas pseudoprimes. (English summary) **99k:11008**
— A note on strong Dickson pseudoprimes. (English summary) **99j:11008**
— Carmichael numbers and Lucas tests. (English summary) **99m:11008**
Nicely, Thomas R. New maximal prime gaps and first occurrences. (English summary) **99i:11004**
Ribenboim, Paulo Prime number records. (English summary)
Yan, Song Y. ★ Perfect, amicable and sociable numbers. (English summary) **99g:11011**
Young, Jeff Large primes and Fermat factors. (English summary) **99a:11010**

11Y16 Algorithms; complexity [see also 68Q25]

Alekseev, V. B. From Karatsuba's method for fast multiplication of numbers to fast algorithms for discrete functions. (Russian) **99g:11147**
Arno, Steven *see* **Ferguson, Helaman R. P.; et al.**, **99c:11157**
Bailey, David H. *see* **Ferguson, Helaman R. P.; et al.**, **99c:11157**
Bender, Renet Lovorn (*with* Pomerance, Carl) Rigorous discrete logarithm computations in finite fields via smooth polynomials. **99c:11156**
Ferguson, Helaman R. P. (*with* Bailey, David H.; Arno, Steven) Analysis of PSLQ, an integer relation finding algorithm. (English summary) **99c:11157**
Gashkov, S. B. On the complexity of integration of rational fractions. (Russian) **99k:11192**
von zur Gathen, Joachim (*with* Hartlieb, Silke) Factoring modular polynomials. (English summary) **99g:11148**
Hartlieb, Silke *see* **von zur Gathen, Joachim**, **99g:11148**
Heckler, Christian (*with* Thiele, L.) Complexity analysis of a parallel lattice basis reduction algorithm. (English summary) **99f:11159**
van der Hoeven, Joris Generic asymptotic expansions. (English summary) **99c:11158**
Huen, Y. K. Final value theorem in number sequences. (English summary)
Margot, Roger *see* **Monagan, Michael B.**, **99g:11149**
Meyer Eikenberry, Shawna (*with* Sorenson, Jonathan P.) Efficient algorithms for computing the Jacobi symbol. (English summary) **99h:11146**
Monagan, Michael B. (*with* Margot, Roger) Computing univariate GCDs over number fields. (English summary) **99g:11149**
Müller, Volker[2] Fast multiplication on elliptic curves over small fields of characteristic two. (English summary) **99j:11147**
— (*with* Stein, Andreas; Thiel, Christoph) Computing discrete logarithms in real quadratic congruence function fields of large genus. (English summary) **99i:11119**
Pomerance, Carl *see* **Bender, Renet Lovorn**, **99c:11156**
Semaev, Igor A. An algorithm for evaluation of discrete logarithms in some nonprime finite fields. (English summary) **99b:11140**
Sorenson, Jonathan P. *see* **Meyer Eikenberry, Shawna**, **99h:11146**
Stein, Andreas *see* **Müller, Volker[2]; et al.**, **99i:11119**
Teitelbaum, Jeremy Euclid's algorithm and the Lanczos method over finite fields. (English summary) **99a:11145**
Teske, Edlyn A space efficient algorithm for group structure computation. (English summary) **99a:11146**
Thiel, Christoph *see* **Müller, Volker[2]; et al.**, **99i:11119**
Thiele, L. *see* **Heckler, Christian**, **99f:11159**

Items with secondary classifications in 11Y16

Araki, Kiyomichi *see* **Satoh, Takakazu**, **99m:11067**
Bosma, Wieb (*with* Cannon, John J.; Steel, Allan) Lattices of compatibly embedded finite fields. (English summary) **99a:11143**
Cannon, John J. *see* **Bosma, Wieb; et al.**, **99a:11143**
Cooperman, Gene (*with* Havas, George) Elementary algebra revisited: randomized algorithms. (English summary) **99g:68091**
Cucker, Felipe (*with* Koiran, Pascal; Smale, Stephen) A polynomial time algorithm for Diophantine equations in one variable. (English summary) **99i:11121**
Elkies, Noam D. Elliptic and modular curves over finite fields and related computational issues. **99a:11078**
Gao, Shu Hong (*with* Panario, Daniel) Tests and constructions of irreducible polynomials over finite fields. (English summary) **99m:11141**
— (*with* Howell, Jason; Panario, Daniel) Irreducible polynomials of given forms. (English summary) **99g:11143**
von zur Gathen, Joachim (*with* Shparlinski, Igor E.) The CREW PRAM complexity of modular inversion. (English summary) **99d:68104**
— (*with* Shparlinski, Igor E.) Computing components and projections of curves over finite fields. (English summary) **99h:11065**
Gordon, Daniel M. A survey of fast exponentiation methods. (English summary) **99g:94014**
Halbeisen, Lorenz (*with* Hungerbühler, Norbert) The Josephus problem. (English and French summaries) **99c:11022**
Havas, George *see* **Cooperman, Gene**, **99g:68091**
Hegland, Markus (*with* Wheeler, Wayne W.) Linear bijections and the fast Fourier transform. (English summary) **99b:65182**
Howell, Jason *see* **Gao, Shu Hong; et al.**, **99g:11143**
Howgrave-Graham, Nicholas Finding small roots of univariate modular equations revisited. (English summary) **99j:94049**
Hungerbühler, Norbert *see* **Halbeisen, Lorenz**, **99c:11022**
Izu, Tetsuya *see* **Kogure, Jun; et al.**, (**99h:00034**)
Jamieson, Michael Pell and Pell-Lucas numbers and acceleration of convergence. (English summary) **99i:11010**
Kaltofen, Erich (*with* Shoup, Victor) Subquadratic-time factoring of polynomials over finite fields. (English summary) **99m:68097**
Kogure, Jun (*with* Izu, Tetsuya; Yokoyama, Kazuhiro) Mounting an improved Schoof algorithm according to Atkin, Elkies et al. (Japanese. Japanese summary) (*see* **99h:00034**)
Koiran, Pascal *see* **Cucker, Felipe; et al.**, **99i:11121**
Korec, Ivan Real-time generation of primes by a one-dimensional cellular automaton with 11 states. (English summary) **99e:68108**
Lercier, R. (*with* Morain, F.) Algorithms for computing isogenies between elliptic curves. (English summary) **99a:11079**
Lucarelli, Vincent On factoring n with the b-algorithm. **99i:11117**
Ma, Jian *see* **Zhong, Ren Bao**
Maller, Michael (*with* Whitehead, Jennifer) Computational complexity over the p-adic numbers. (English summary) **99c:68080**
Morain, F. *see* **Lercier, R.**, **99a:11079**
Panario, Daniel (*with* Viola, Alfredo) Analysis of Rabin's polynomial irreducibility test. (English summary) **99d:68119**
— (*with* Richmond, L. Bruce) Analysis of Ben-Or's polynomial irreducibility test. (English summary) **99j:11141**
— *see also* **Gao, Shu Hong; et al.**, **99g:11143** *and* **99m:11141**
Richmond, L. Bruce *see* **Panario, Daniel**, **99j:11141**
Roelse, Peter Factoring high-degree polynomials over $\mathbf{F}_2$ with Niederreiter's algorithm on the IBM SP2. (English summary) **99i:11112**
Satoh, Takakazu (*with* Araki, Kiyomichi) Fermat quotients and polynomial time algorithms for finding discrete logarithms of anomalous elliptic curves. (Japanese) **99m:11067**

Shoup, Victor *see* **Kaltofen, Erich, 99m:68097**
Shparlinski, Igor E. *see* **von zur Gathen, Joachim, 99d:68104** *and* **99h:11065**
Siksek, S. (*with* Smart, Nigel P.) On the complexity of computing the 2-Selmer group of an elliptic curve. (English summary) **99b:11061**
Smale, Stephen *see* **Cucker, Felipe; et al., 99i:11121**
Smart, Nigel P. *see* **Siksek, S., 99b:11061**
Steel, Allan *see* **Bosma, Wieb; et al., 99a:11143**
Stein, Greg Traces of roots of unity over prime fields. (English summary) **99g:11145**
Temirgaliev, N. T. On the efficiency of numerical integration algorithms associated with the theory of divisors in cyclotomic fields. (Russian. Russian summary) **99b:65025**
Viola, Alfredo *see* **Panario, Daniel, 99d:68119**
Wheeler, Wayne W. *see* **Hegland, Markus, 99b:65182**
Whitehead, Jennifer *see* **Maller, Michael, 99c:68080**
Yan, Song Y. ★ An introduction to formal languages and machine computation. (English summary) **99h:68001**
Yokoyama, Kazuhiro *see* **Kogure, Jun; et al., (99h:00034)**
Zhong, Ren Bao (*with* Ma, Jian) An algorithm for the Chinese remainder problem. (English summary)

11Y35 Analytic computations

Cang, S. *see* **Paris, R. B., 99b:11142**
Deléglise, Marc (*with* Rivat, Joël) Computing $\psi(x)$. (English summary) **99a:11147**
Dusart, Pierre The kth prime is greater than $k(\ln k + \ln\ln k - 1)$ for $k \geq 2$. (English summary) **99d:11133**
Lindqvist, Peter (*with* Peetre, Jaak) On a number-theoretic sum considered by Meissel—a historical observation. (English summary) **99b:11141**
Paris, R. B. (*with* Cang, S.) An exponentially-smoothed Gram-type formula for the Riemann zeta function. (English summary) **99b:11142**
Peetre, Jaak *see* **Lindqvist, Peter, 99b:11141**
Rivat, Joël *see* **Deléglise, Marc, 99a:11147**

Items with secondary classifications in 11Y35

Akiyama, Shigeki (*with* Tanigawa, Yoshio) Calculation of values of L-functions associated to elliptic curves. (English summary) **99m:11070**
Bertault, F. (*with* Ramaré, Olivier; Zimmermann, Paul) On sums of seven cubes. (English summary) **99j:11116**
Boyd, David W. Mahler's measure and special values of L-functions. (English summary) **99d:11070**
Cang, S. *see* **Paris, R. B., 99b:11097**
Gouvêa, Fernando Q. Non-ordinary primes: a story. (English summary) **99a:11052**
Louboutin, Stéphane Upper bounds on $|L(1,\chi)|$ and applications. (English summary) **99f:11149**
Mossinghoff, Michael J. Polynomials with small Mahler measure. (English summary) **99a:11119**
Paris, R. B. (*with* Cang, S.) An asymptotic representation for $\zeta(\frac{1}{2}+it)$. (English summary) **99b:11097**
Ramaré, Olivier *see* **Bertault, F.; et al., 99j:11116**
Richstein, Jörg Unendliche Geschwisterliebe unter Zahlen oder Die Suche nach den Primzahlzwillingen. [Infinite sibling love among numbers or The search for the twin primes] **99f:11117**
Tanigawa, Yoshio *see* **Akiyama, Shigeki, 99m:11070**
Zimmermann, Paul *see* **Bertault, F.; et al., 99j:11116**

11Y40 Algebraic number theory computations

Baica, Malvina General Euclidean algorithm (BGEA) and sums of some infinite series. (English summary)
Buchmann, Johannes (*with* Eisenbrand, Friedrich) On factor refinement in number fields. (English summary) **99e:11155**
Cohen, Henri Computing in algebraic number fields. (English summary) **99k:11193**
Daberkow, M. (*with* Fieker, C.; Klüners, Jürgen; Pohst, Michael E.; Roegner, K.; Schörnig, M.; Wildanger, K.) KANT V4. (English summary) **99g:11150**
Eisenbrand, Friedrich *see* **Buchmann, Johannes, 99e:11155**
Fieker, C. *see* **Daberkow, M.; et al., 99g:11150**
Jacobson, Michael J., Jr. Applying sieving to the computation of quadratic class groups. (English summary) **99i:11120**
Klüners, Jürgen *see* **Daberkow, M.; et al., 99g:11150**
Nakahara, Toru Experiments on a problem of D. Shanks concerning quadratic fields. **99c:11159**
Pohst, Michael E. From class groups to class fields. (English summary) **99k:11194**
— *see also* **Daberkow, M.; et al., 99g:11150**
Roegner, K. *see* **Daberkow, M.; et al., 99g:11150**
Schörnig, M. *see* **Daberkow, M.; et al., 99g:11150**
Selmane, Schehrazad Non-primitive number fields of degree eight and of signature $(2,3)$, $(4,2)$ and $(6,1)$ with small discriminant. (English summary) **99c:11160**
Shokrollahi, M. Amin Relative class number of imaginary abelian fields of prime conductor below 10 000. (English summary) **99m:11147**
Srinivasan, Anitha Computations of class numbers of real quadratic fields. (English summary) **99b:11143**
Wildanger, K. *see* **Daberkow, M.; et al., 99g:11150**

Items with secondary classifications in 11Y40

Acciaro, Vincenzo (*with* Klüners, Jürgen) Computing automorphisms of abelian number fields. (English summary) **99i:11099**
Buhler, Joe (*with* Koblitz, Neal) Lattice basis reduction, Jacobi sums and hyperelliptic cryptosystems. (English summary) **99j:11145**
Cavallar, Stefania (*with* Lemmermeyer, Franz) The Euclidean algorithm in cubic number fields. (English summary) **99e:11137**
Cohen, Henri (*with* Diaz y Diaz, F.; Olivier, Michel) Tables of octic fields with a quartic subfield. (English summary) **99m:11132**
Diaz y Diaz, F. *see* **Cohen, Henri; et al., 99m:11132**
Gaál, István Computing power integral bases in algebraic number fields. (English summary) **99d:11113**
Grandcolas, Michel Weighted diameters of complete sets of conjugate algebraic integers. (English summary) **99c:11130**
Ji, Guangheng (*with* Lu, Hongwen) Proof of class number formulae by machine—a note on a Chowla's conjecture. (English summary) **99i:11103**
Klüners, Jürgen *see* **Acciaro, Vincenzo, 99i:11099**
Koblitz, Neal *see* **Buhler, Joe, 99j:11145**
Lemmermeyer, Franz *see* **Cavallar, Stefania, 99e:11137**
Louboutin, Stéphane (*with* Okazaki, Ryotaro) The class number one problem for some non-abelian normal CM-fields of 2-power degrees. **99c:11138**
Lu, Hongwen *see* **Ji, Guangheng, 99i:11103**
Nemenzo, Fidel Ronquillo All congruent numbers less than 40000. **99e:11070**
Okazaki, Ryotaro *see* **Louboutin, Stéphane, 99c:11138**
Olivier, Michel *see* **Cohen, Henri; et al., 99m:11132**
Ruppert, Wolfgang M. Small generators of number fields. (English summary) **99d:11114**
Safer, Taoufik Radix representations of algebraic number fields and finite automata. (English summary) **99g:68119**
Washington, Lawrence C. (*with* Zhang, Xian Ke) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. **99g:11128b**
— *see also* **Zhang, Xian Ke, 99g:11128a**
Zhang, Xian Ke (*with* Washington, Lawrence C.) Modification of Cohen-Lenstra heuristics for ideal class groups and numbers of certain real quadratic fields. (Chinese) **99g:11128a**
— *see also* **Washington, Lawrence C., 99g:11128b**

11Y50 Computer solution of Diophantine equations

Cucker, Felipe (*with* Koiran, Pascal; Smale, Stephen) A polynomial time algorithm for Diophantine equations in one variable. (English summary) **99i:11121**
Heimonen, Ari Solving certain Thue equations with the aid of Mathematica. (English summary) **99a:11148**
Heuberger, Clemens On a family of quintic Thue equations. (English summary) **99d:11134**
Hocquemiller, Marcel Contribution numérique à l'étude d'un système congruentiel. [Numerical contribution to the study of a congruent system] (*see* **99f:11004**)
Koiran, Pascal *see* **Cucker, Felipe; et al., 99i:11121**
Smale, Stephen *see* **Cucker, Felipe; et al., 99i:11121**
Stroeker, Roelof J. (*with* de Weger, Benjamin M. M.) Elliptic binomial Diophantine equations. (English summary) **99i:11122**
de Weger, Benjamin M. M. Solving elliptic Diophantine equations avoiding Thue equations and elliptic logarithms. (English summary) **99m:11148**
— *see also* **Stroeker, Roelof J., 99i:11122**
Zimmer, Horst G. Basic algorithms for elliptic curves. **99c:11161**

Items with secondary classifications in 11Y50

Bilu, Yuri F. (*with* Hanrot, Guillaume) Solving superelliptic Diophantine equations by Baker's method. (English summary) **99d:11028**
Cremona, J. E. (*with* Serf, P.) Computing the rank of elliptic curves over real quadratic number fields of class number 1. (English summary) **99j:11060**
Goetgheluck, P. Infinite families of solutions of the equation $\binom{n}{k} = 2\binom{a}{b}$. (English summary) **99a:11019**
Hajdu, L. (*with* Pintér, Ákos) Square product of three integers in short intervals. (English summary) **99j:11027**
Hanrot, Guillaume *see* **Bilu, Yuri F., 99d:11028**
Le, Mao Hua Diophantine equation $x^2 + 2^m = y^n$. **99h:11036**
Lesage, Jean-Luc Différence entre puissances et carrés d'entiers. (English summary) [Difference between powers and squares of integers] **99j:11031**
Lettl, Günter (*with* Pethö, Attila; Voutier, Paul M.) On the arithmetic of simplest sextic fields and related Thue equations. **99h:11031**
Nemenzo, Fidel Ronquillo All congruent numbers less than 40000. **99e:11070**
Nitaj, Abderrahmane Aspects expérimentaux de la conjecture *abc*. [Experimental aspects of the *abc* conjecture] **99f:11041**
— Détermination de courbes elliptiques pour la conjecture de Szpiro. [Determination of elliptic curves for the Szpiro conjecture] **99i:11041**
Passow, Eli On the solutions of $n! = m!r!$. (English summary) **99i:11025**
Pethö, Attila (*with* Stein, Joachim; Weis, Thomas; Zimmer, Horst G.) Computing the torsion group of elliptic curves by the method of Gröbner bases. **99e:11071**
— *see also* **Lettl, Günter; et al., 99h:11031**
Pintér, Ákos *see* **Hajdu, L., 99j:11027**
Serf, P. *see* **Cremona, J. E., 99j:11060**
Silverman, Joseph H. Computing rational points on rank 1 elliptic curves via L-series and canonical heights. (English summary) **99i:11043**
Smart, Nigel P. Thue and Thue-Mahler equations over rings of integers. (English summary) **99d:11031**
Stein, Joachim *see* **Pethö, Attila; et al., 99e:11071**
Stroeker, Roelof J. (*with* de Weger, Benjamin M. M.) Solving elliptic Diophantine equations: the general cubic case. **99m:11029**
Voutier, Paul M. *see* **Lettl, Günter; et al., 99h:11031**
de Weger, Benjamin M. M. *see* **Stroeker, Roelof J., 99m:11029**
Weis, Thomas *see* **Pethö, Attila; et al., 99e:11071**
Zimmer, Horst G. *see* **Pethö, Attila; et al., 99e:11071**

11Y55 Calculation of integer sequences

Benito, Manuel (*with* Varona, Juan L.) Advances in aliquot sequences. (English summary) **99c:11162**
Chebrakov, Y. V. *see* **Yasinskiy, S. A.; et al., (99a:11002)**

Ibstedt, Henry ★ Computer analysis of number sequences. **99g:11151**
Shmagin, V. V. *see* **Yasinskiy, S. A.; et al., (99a:11002)**
Stephan, Ralf W. Factors and primes in two Smarandache sequences. (English summary)
Varona, Juan L. *see* **Benito, Manuel, 99c:11162**
Yasinskiy, S. A. (*with* Shmagin, V. V.; Chebrakov, Y. V.) The system-graphical analysis of some numerical Smarandache sequences. (English summary) (*see* **99a:11002**)
Živković, Miodrag The number of primes $\sum_{i=1}^{n}(-1)^{n-i}i!$ is finite. (English summary) **99c:11163**

Items with secondary classifications in 11Y55

Forbes, Anthony D. Prime clusters and Cunningham chains. (English summary) **99m:11007**
Nolan, Jennifer M. (*with* Sivaraman, Vijay; Savage, Carla D.; Tiwari, Pranav K.) Graphical basis partitions. (English summary) **99j:05014**
Savage, Carla D. *see* **Nolan, Jennifer M.; et al., 99j:05014**
Sivaraman, Vijay *see* **Nolan, Jennifer M.; et al., 99j:05014**
Tiwari, Pranav K. *see* **Nolan, Jennifer M.; et al., 99j:05014**

11Y60 Evaluation of constants

Borwein, Jonathan M. (*with* Borwein, Peter B.) ★ Pi and the AGM. **99h:11147**
Borwein, Peter B. *see* **Borwein, Jonathan M., 99h:11147**
Candelpergher, B. (*with* Coppo, M. A.; Delabaere, Eric) La sommation de Ramanujan. (French summary) [The Ramanujan summation] **99a:11149**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Classification of hypergeometric identities for π and other logarithms of algebraic numbers. (English summary) **99g:11152**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 99g:11152**
Coppo, M. A. *see* **Candelpergher, B.; et al., 99a:11149**
Delabaere, Eric *see* **Candelpergher, B.; et al., 99a:11149**
Ojha, P. K. (*with* Singh, I. N.) A discussion on two methods for finding the value of "the Riemann zeta function" $\zeta(s)$ where $s = 2$. (English summary)
Peretti, Aldo The irrationality of Euler's constant. III.
Shutler, Paul M. E. Euler's constant, Stirling's approximation and the Riemann zeta function. (English summary) **99d:11135**
Singh, I. N. *see* **Ojha, P. K.**
Sitaramachandrarao, R. A formula of S. Ramanujan. (*see* **99g:11001**)
Srivastava, Hari M. Further series representations for $\zeta(2n+1)$. (English summary) **99h:11148**
— Some rapidly converging series for $\zeta(2n+1)$. (English summary) **99c:11164**

Items with secondary classifications in 11Y60

Bhaskaran, R. On the versatility of Ramanujan's ideas. (*see* **99g:11001**)
Borwein, Jonathan M. (*with* Bradley, David M.; Broadhurst, David J.; Lisoněk, Petr) Combinatorial aspects of multiple zeta values. (English summary) **99g:11100**
Bradley, David M. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Broadhurst, David J. *see* **Borwein, Jonathan M.; et al., 99g:11100**
Chan, Heng Huat Ramanujan-Weber class invariant G_n and Watson's empirical process. (English summary) **99j:11134**
Chen, Ming-Po (*with* Srivastava, Hari M.) Some families of series representations for the Riemann $\zeta(3)$. (English summary) **99b:11095**
Chhajer, G. C. *see* **Joshi, Mukesh M.; et al.**
Choi, Junesang (*with* Rathie, Arjun K.) An evaluation of $\zeta(2)$. (English summary) **99d:11097**
Flajolet, Philippe (*with* Salvy, Bruno) Euler sums and contour integral representations. (English summary) **99c:11110**
Hauss, Michael A Boole-type formula involving conjugate Euler polynomials. (English summary) **99k:11030**
Joshi, Mukesh M. (*with* Nagar, Vishakha; Chhajer, G. C.; Rathie, Arjun K.) On Ramanujan's summations. (English summary)
Kanada, Yasumasa *see* **Takahashi, Daisuke, 99d:65063**
Lisoněk, Petr *see* **Borwein, Jonathan M.; et al., 99g:11100**
McKinzie, Mark (*with* Tuckey, Curtis) Hidden lemmas in Euler's summation of the reciprocals of the squares. **99c:11003**
Montesinos Amilibia, José María Numbers, combinatorics and knots: from the discrete to the continuous. (Catalan) **99c:00001**
Nagar, Vishakha *see* **Joshi, Mukesh M.; et al.**
Peretti, Aldo A new continued fraction for Euler's constant. (English summary) **99f:11160**
Rathie, Arjun K. *see* **Choi, Junesang, 99d:11097** *and* **Joshi, Mukesh M.; et al.**
Salvy, Bruno *see* **Flajolet, Philippe, 99c:11110**
Sitaramachandrarao, R. Ramanujan's formula for $\zeta(2n+1)$. (*see* **99g:11001**)
Srivastava, Hari M. *see* **Chen, Ming-Po, 99b:11095**
Takahashi, Daisuke (*with* Kanada, Yasumasa) Calculation of π to 51.5 billion decimal digits on distributed memory parallel processors. (Japanese. English and Japanese summaries) **99d:65063**
Tuckey, Curtis *see* **McKinzie, Mark, 99c:11003**

11Y65 Continued fraction calculations

Niederreiter, Harald (*with* Vielhaber, Michael) Simultaneous shifted continued fraction expansions in quadratic time. (English summary) **99k:11195**
Peretti, Aldo A new continued fraction for Euler's constant. (English summary) **99f:11160**
Vielhaber, Michael *see* **Niederreiter, Harald, 99k:11195**

Items with secondary classifications in 11Y65

Kachmar, V. S. (*with* Rusyn, B. P.; Shmoĭlov, V. I.) Algorithms for computing the values of continued fractions. (Russian. Russian summary) **99m:65026**
Rusyn, B. P. *see* **Kachmar, V. S.; et al., 99m:65026**
Shmoĭlov, V. I. *see* **Kachmar, V. S.; et al., 99m:65026**

11Y70 Values of arithmetic functions; tables

Fleuren, Micha Smarandache factors and reverse factors. (English summary)

Items with secondary classifications in 11Y70

Bacher, Roland Tables de réseaux entiers unimodulaires construits comme k-voisins de $\mathbf{Z}^n$. (English and French summaries) [Tables of unimodular integral lattices constructed as k-neighbors of $\mathbf{Z}^n$] **99b:11072**
Cohen, G. L. (*with* Sorli, R. M.) Harmonic seeds. **99j:11002**
Sorli, R. M. *see* **Cohen, G. L., 99j:11002**
Yan, Song Y. ★ Perfect, amicable and sociable numbers. (English summary) **99g:11011**

11Y99 None of the above, but in this section

Gupta, Shyam Sunder Systematic computations of rare numbers.
Khot, P. G. *see* **Lichade, Vishal M.**
Lichade, Vishal M. (*with* Khot, P. G.) Square of a number using a series.
Shang, Shi Min A notation for astronomically large numbers, and continued logarithms. (Chinese. English and Chinese summaries) **99h:11149**

11Z05 Miscellaneous applications of number theory

Cook, Roger J. Number theory. (English summary) (*see* **99a:05001**)
Khrennikov, Andrei p-adic behaviour of Bernoulli probabilities. (English summary) **99d:11136**
Liboff, Richard L. (*with* Wong, Michael) Quasi-chaotic property of the prime-number sequence. (English summary)
Schroeder, M. R. ★ Number theory in science and communication. **99c:11165**
Spector, Donald Duality, partial supersymmetry, and arithmetic number theory. (English summary) **99b:11144**
Wong, Michael *see* **Liboff, Richard L.**

Items with secondary classifications in 11Z05

Albeverio, Sergio (*with* Khrennikov, Andrei) A regularization of quantum field Hamiltonians with the aid of p-adic numbers. (English summary) **99f:81117**
Baake, Michael Algebraic solution of the coincidence problem for crystals and quasicrystals. (English summary) (*see* **99f:82002**)
— Combinatorial aspects of colour symmetries. (English summary) **99b:11077**
Bailin, D. (*with* Kraniotis, G. V.; Love, Alexander) The supersymmetric CP problem in orbifold compactifications. (English summary) **99b:81173**
— (*with* Kraniotis, G. V.; Love, Alexander) The effect of Wilson line moduli on CP-violation by soft supersymmetry breaking terms. (English summary) **99f:81143**
Berkovich, Alexander (*with* McCoy, Barry M.; Schilling, Anne) Rogers-Schur-Ramanujan type identities for the $M(p, p')$ minimal models of conformal field theory. (English summary) **99d:81047**
Beukers, Frits (*with* Sanders, Jan A.; Wang, Jing Ping) One symmetry does not imply integrability. (English summary) **99i:35005**
Bianchi, Massimo A note on toroidal compactifications of the type I superstring and other superstring vacuum configurations with 16 supercharges. (English summary) **99i:81171**
Bobylëv, A. V. *see* **Palczewski, Andrzej; et al., 99d:82068**
Cappelli, Andrea (*with* Zemba, Guillermo R.) Modular invariant partition functions in the quantum Hall effect. (English summary) **99b:81288**
Cardoso, Gabriel Lopes (*with* Curio, Gottfried; Lüst, Dieter) Perturbative couplings and modular forms in $N = 2$ string models with a Wilson line. (English summary) **99f:81152**
Chalmers, Gordon Momentum analyticity and finiteness of compactified string amplitudes. I. Tori. (English summary) **99c:81172**
Chin, C. H. Quantum field theory under hypertranscendental action. (English summary) (*see* **99f:82002**)
Cianci, Roberto Poisson brackets and adelic commutators. (English summary) **99j:81077**
Córdoba, Antonio Lattice points. **99k:11155**
Curio, Gottfried (*with* Lüst, Dieter) A class of $N = 1$ dual string pairs and its modular superpotential. (English summary) **99b:81182**
— *see also* **Cardoso, Gabriel Lopes; et al., 99f:81152**
Dragović, Branko G. On generalized functions in adelic quantum mechanics. (English summary) **99d:11124**
Elizalde, Emilio ★ Ten physical applications of spectral zeta functions. (English summary) **99b:58236**
— Multidimensional extension of the generalized Chowla-Selberg formula. (English summary) **99k:11137**
Fefferman, Charles L. (*with* Seco, Luis A.) Arithmetic aspects of atomic structures. **99k:81347**
Ferreira, F. F. (*with* Fontanari, J. F.) Probabilistic analysis of the number partitioning problem. (English summary) **99b:82009**
Fontanari, J. F. *see* **Ferreira, F. F., 99b:82009**
Förger, Kristin (*with* Stieberger, S.) String amplitudes and $N = 2$, $d = 4$ prepotential in heterotic $K3 \times T^2$ compactifications. (English summary) **99f:81160**
(Friedman, Joel) *see* **Emerging applications of number theory, 99m:11003**
(Gutzwiller, Martin C.) *see* **Emerging applications of number theory, 99m:11003**
Haluška, Ján Uncertainty and tuning in music. (English summary) **99a:00009**
(Hejhal, Dennis A.) *see* **Emerging applications of number theory, 99m:11003**
Hlawka, Edmund Gleichverteilung und Simulation. (German summary) [Uniform distribution and simulation] **99h:11084**
Holthaus, Martin (*with* Kalinowski, Eva; Kirsten, Klaus) Condensate fluctuations in trapped Bose gases: canonical vs. microcanonical ensemble. (English summary) **99h:82004**
Hosoya, Haruo Pascal's triangle, non-adjacent numbers, and D-dimensional atomic orbitals. (English summary) **99c:81277**
Hurt, Norman E. ★ Quantum chaos and mesoscopic systems. (English summary) **99c:81045**

Iguchi, Kazumoto Generalized Sommerfeld theory: specific heat of a degenerate g-on gas in any dimension and the generalized Riemann zeta function. (English summary) **99b:82013**
Jang, Young Ho Algebraic Weyl system and application. (English summary) **99m:11139**
— ★ Non-Archimedean quantum mechanics. **99c:81002**
Kalinowski, Eva *see* **Holthaus, Martin; et al., 99h:82004**
Kartashova, E. A. Wave resonances in systems with discrete spectra. **99c:35247**
Keating, Jonathan P. Resummation and the turning points of zeta functions. (English summary) (*see* **99a:81002**)
Khrennikov, Andrei *see* **Albeverio, Sergio, 99f:81117**
Kiritsis, Elias (*with* Pioline, Boris) On R^4 threshold corrections in type IIB string theory and (p, q)-string instantons. (English summary) **99c:81194**
Kirsten, Klaus *see* **Holthaus, Martin; et al., 99h:82004**
Kisun'ko, A. G. *see* **Vshivtsev, A. S.; et al., 99c:81146**
Klimek, Sławomir (*with* Leśniewski, Andrzej) Ergodic theorems for quantum Kronecker flows. (English summary) **99b:11090**
Klimenko, K. G. *see* **Vshivtsev, A. S.; et al., 99c:81146**
Knopfmacher, John Asymptotic isomer enumeration in chemistry. (English summary) **99g:92045**
Kochubeĭ, A. N. Harmonic oscillator in characteristic p. (English summary) **99f:11155**
Kozyrev, S. V. Free coherent states and distributions on p-adic numbers. (English summary) **99d:81053**
Kraniotis, G. V. *see* **Bailin, D.; et al., 99b:81173** *and* **99f:81143**
Leśniewski, Andrzej *see* **Klimek, Sławomir, 99b:11090**
Love, Alexander *see* **Bailin, D.; et al., 99b:81173** *and* **99f:81143**
Lüst, Dieter *see* **Curio, Gottfried, 99b:81182** *and* **Cardoso, Gabriel Lopes; et al., 99f:81152**
Main, Jörg (*with* Mandelshtam, Vladimir A.; Wunner, Günter; Taylor, Howard S.) Harmonic inversion as a general method for periodic orbit quantization. (English summary) **99f:81053**
Mandelshtam, Vladimir A. *see* **Main, Jörg; et al., 99f:81053**
McCoy, Barry M. *see* **Berkovich, Alexander; et al., 99d:81047**
Minahan, Joseph A. (*with* Nemeschansky, D.; Warner, N. P.) Partition functions for BPS states of the non-critical E_8 string. (English summary) **99c:81201**
Missarov, M. D. Functional equations and renormalizations in p-adic field theories. (Russian. English and Russian summaries) **99b:81159**
Moore, Gregory W. String duality, automorphic forms, and generalized Kac-Moody algebras. (English summary) **99f:81175**
Nemeschansky, D. *see* **Minahan, Joseph A.; et al., 99c:81201**
Nesterenko, V. V. (*with* Pirozhenko, I. G.) Justification of the zeta function renormalization in rigid string model. (English summary) **99j:81123**
(Odlyzko, Andrew M.) *see* **Emerging applications of number theory, 99m:11003**
Okubo, Susumu Lorentz-invariant Hamiltonian and Riemann hypothesis. (English summary) **99e:11116**
Palczewski, Andrzej (*with* Schneider, Jacques; Bobylëv, A. V.) A consistency result for a discrete-velocity model of the Boltzmann equation. (English summary) **99d:82068**
Peregudov, D. V. *see* **Vshivtsev, A. S.; et al., 99c:81146**
Petronilho, Gerson Global solvability on the torus for certain classes of operators in the form of a sum of squares of vector fields. **99f:35023**
Pioline, Boris *see* **Kiritsis, Elias, 99c:81194**
Pirozhenko, I. G. *see* **Nesterenko, V. V., 99j:81123**
Rodríguez-Salinas, Baltasar On Dirichlet's principle and its applications. (English summary) **99j:47032**
Sanders, Jan A. *see* **Beukers, Frits; et al., 99i:35005**
Schilling, Anne *see* **Berkovich, Alexander; et al., 99d:81047**
Schneider, Jacques *see* **Palczewski, Andrzej; et al., 99d:82068**
Seco, Luis A. *see* **Fefferman, Charles L., 99k:81347**
Stieberger, S. *see* **Förger, Kristin, 99f:81160**
Suzuki, Junji Quantum Jacobi-Trudi formula and E_8 structure in the Ising model in a field. (English summary) **99g:82021**
Taylor, Howard S. *see* **Main, Jörg; et al., 99f:81053**
Vershik, Anatoliĭ Moiseevich Limit distribution of the energy of a quantum ideal gas from the point of view of the theory of partitions of natural numbers. (Russian) **99b:82016**
Vourdas, A. Phase space methods for finite quantum systems. (English summary) **99a:81086**
Vshivtsev, A. S. (*with* Kisun'ko, A. G.; Klimenko, K. G.; Peregudov, D. V.) Phase structure of the Gross-Neveu model taking into account the influence of temperature and finite volume. (Russian. Russian summary) **99c:81146**
Wang, Jing Ping *see* **Beukers, Frits; et al., 99i:35005**
Warner, N. P. *see* **Minahan, Joseph A.; et al., 99c:81201**
Wunner, Günter *see* **Main, Jörg; et al., 99f:81053**
Zemba, Guillermo R. *see* **Cappelli, Andrea, 99b:81288**

Items listed otherwise than by author

Emerging applications of number theory ★ Emerging applications of number theory. **99m:11003**
Minneapolis, MN ★ Emerging applications of number theory. **99m:11003**

12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Gaal, Lisl ★ Classical Galois theory. **99g:12001**
Sethuraman, B. A. ★ Rings, fields, and vector spaces. (English summary) **99c:12001**

Items with secondary classifications in 12–01

(Reid, Miles) *see* **Shafarevich, Igor R., 99g:00009**
Shafarevich, Igor R. ★ Basic notions of algebra. **99g:00009**

12–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 12–02

Matzat, B. Heinrich Fortschritte in der inversen Galoistheorie. [Progress in inverse Galois theory] **99m:12005**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

Tatarkiewicz, Krzysztof Hilbert's Thirteenth Problem. (Polish. English summary) **99h:01032**
Varadarajan, V. S. ★ Algebra in ancient and modern times. (English summary) **99d:01007**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 12–04

Johnson, Jeremy R. Algorithms for polynomial real root isolation. (*see* **99b:03007**)

12–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 12–06

(Lochak, Pierre) *see* **Geometric Galois actions, 99f:14002**
(Schneps, Leila) *see* **Geometric Galois actions, 99f:14002**

Items listed otherwise than by author

Geometric Galois actions ★ Geometric Galois actions. 2. **99f:14002**

12Dxx Real and complex fields

12D05 Polynomials: factorization

Aliashvili, T. On the estimation of the root number of a polynomial endomorphism over an $\overline{R}$-field. (Russian and Georgian summaries)
Frontczak, Maria (*with* Skibiński, Przemysław; Spodzieja, Stanisław) On factorization of polynomials with holomorphic coefficients. (English summary) **99c:12002**
Landau, Susan $\sqrt{2}+\sqrt{3}$: four different views. **99g:12002**
Skibiński, Przemysław *see* **Frontczak, Maria; et al., 99c:12002**
Spodzieja, Stanisław *see* **Frontczak, Maria; et al., 99c:12002**

Items with secondary classifications in 12D05

Todorov, Pavel G. A natural verification of the Sendov conjecture for the canonical cubic equation and other results for the location of its roots. (English summary) **99i:30010**
— On the Hermite method for the factorization of algebraic polynomials. (English summary) **99c:65098**
Trzaska, Zdzisław W. On 2-D polynomials and discrete-continuous systems. (English summary) **99c:93073**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Anderson, Bruce B. (*with* Jackson, Jeffrey C.; Sitharam, Meera) Descartes' rule of signs revisited. **99e:12001**
Benoumhani, M. Sur une propriété des polynômes à racines réelles négatives. [A property of polynomials with negative real roots] **99c:12003**
Chen, Min (*with* Xia, Bi Can) An explicit criterion for the number of roots of a polynomial in an interval. (Chinese. English and Chinese summaries) **99k:12001**
— A generalized discriminant system for polynomials and its applications. (Chinese. English and Chinese summaries)
Dimitrić, Radoslav On the roots of a polynomial. (English summary)
González-Vega, Laureano (*with* Trujillo, Guadalupe) Multivariate Sturm-Habicht sequences: real root counting on n-rectangles and triangles. (English summary) **99h:12001**
Hirschhorn, Michael D. The fundamental theorem of algebra.
Hong, Hoon Bounds for absolute positiveness of multivariate polynomials. (English summary) **99k:12002**
Jackson, Jeffrey C. *see* **Anderson, Bruce B.; et al., 99e:12001**
Sitharam, Meera *see* **Anderson, Bruce B.; et al., 99e:12001**
Sturmfels, Bernd Polynomial equations and convex polytopes. **99k:12003**
Trujillo, Guadalupe *see* **González-Vega, Laureano, 99h:12001**
Xia, Bi Can *see* **Chen, Min, 99k:12001**

Items with secondary classifications in 12D10

Bazán, Fermin S. V. *see* **Bezerra, Licio H., 99e:15007**
Bezerra, Licio H. (*with* Bazán, Fermin S. V.) Eigenvalue locations of generalized companion predictor matrices. (English summary) **99e:15007**
Carnicer, J. M. (*with* Peña, J. M.) Characterizations of the optimal Descartes' rules of signs. (English summary) **99d:26019**
(Gauss, Carl Friedrich) *see* **Sols Lucía, Ignacio, 99a:01014**
González-Vega, Laureano A combinatorial algorithm solving some quantifier elimination problems. (*see* **99b:03007**)
Gregor, Jiří (*with* Tišer, Jaroslav) On Hadamard powers of polynomials. (English summary) **99k:26016**
Hong, Hoon (*with* Sendra, J. Rafael) Computation of variant resultants. (*see* **99b:03007**)
Ikramov, Khakim D. (*with* Savel'eva, N. V.) Efficient computer algebra implementation of the Schur-Cohn-Fujiwara criterion. (Russian. Russian summary) **99d:65156**
Johnson, Jeremy R. Algorithms for polynomial real root isolation. (*see* **99b:03007**)
Khovanskiĭ, A. G. Newton polytopes, curves on toric surfaces, and inversion of Weil's theorem. (Russian) **99d:14055**
Kojok, Badrié (*with* Viry, Guy) Simplifications in the resolution of systems of algebraic equations. (English summary) **99a:13016**
Mossinghoff, Michael J. (*with* Pinner, Christopher G.; Vaaler, Jeffrey D.) Perturbing polynomials with all their roots on the unit circle. (English summary) **99b:26024**
Peña, J. M. *see* **Carnicer, J. M., 99d:26019**
Pinner, Christopher G. *see* **Mossinghoff, Michael J.; et al., 99b:26024**
Savel'eva, N. V. *see* **Ikramov, Khakim D., 99d:65156**
Sendra, J. Rafael *see* **Hong, Hoon, (99b:03007)**
Sols Lucía, Ignacio Gauss and the algebra of his time. (Spanish) **99a:01014**
Tišer, Jaroslav *see* **Gregor, Jiří, 99k:26016**
Vaaler, Jeffrey D. *see* **Mossinghoff, Michael J.; et al., 99b:26024**
Viry, Guy *see* **Kojok, Badrié, 99a:13016**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

González-Vega, Laureano (*with* Recio, Tomas; Lombardi, Henri; Roy, Marie-Françoise) Sturm-Habicht sequences, determinants and real roots of univariate polynomials. (*see* **99b:03007**)
Lombardi, Henri *see* **González-Vega, Laureano; et al., (99b:03007)**
Recio, Tomas *see* **González-Vega, Laureano; et al., (99b:03007)**
Roy, Marie-Françoise *see* **González-Vega, Laureano; et al., (99b:03007)**

Items with secondary classifications in 12D15

Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) A new algorithm to find a point in every cell defined by a family of polynomials. (*see* **99b:03007**)
Berr, Ralph Null- and Positivstellensätze for generalized real closed fields. (English summary) **99a:14085**
Collins, George E. Quantifier elimination for real closed fields by cylindrical algebraic decomposition. (*see* **99b:03007**)
Dickmann, M. A. (*with* Miraglia, F.) On quadratic forms whose total signature is zero mod 2^n. **99f:11052**
Engler, Antonio José Totally real rigid elements and Galois theory. (English summary) **99k:12005**
Hornix, E. A. M. Relations between invariants of formally real fields. (English summary) **99f:11049**
Lombardi, Henri Relecture constructive de la théorie d'Artin-Schreier. (English and French summaries) [A constructive rereading of the Artin-Schreier theory] **99f:03088**
Miraglia, F. *see* **Dickmann, M. A., 99f:11052**
Monnier, Jean-Philippe Anneaux d'holomorphie et Positivstellensatz archimédien. (English summary) [Holomorphy rings and Archimedean Positivstellensatz] **99m:13013**
Neuhaus, Rolf Computation of real radicals of polynomial ideals. II. (English summary) **99c:13054**
Pollack, Richard M. *see* **Basu, Saugata; et al., (99b:03007)**
Roy, Marie-Françoise *see* **Basu, Saugata; et al., (99b:03007)**
Weispfenning, Volker A new approach to quantifier elimination for real algebra. (*see* **99b:03007**)
Zeng, Guang Xing Strictly real Hilbert rings. (Chinese. English and Chinese summaries) **99e:13026**

12D99 None of the above, but in this section

Reich, Ludwig Iterative roots of formal power series: universal expressions for the coefficients and analytic iteration. **99a:12001**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Alonso, Cesar (*with* Gutierrez, Jaime; Recio, Tomas) A note on separated factors of separated polynomials. (English summary) **99f:12001**
Gutierrez, Jaime *see* **Alonso, Cesar; et al., 99f:12001**
Recio, Tomas *see* **Alonso, Cesar; et al., 99f:12001**
Zieve, Michael Bivariate factorizations via Galois theory, with application to exceptional polynomials. (English summary) **99m:12001**

Items with secondary classifications in 12E05

Dubickas, Artūras (*with* Konyagin, Sergeĭ) On the number of polynomials of bounded measure. **99m:11122**
Eigenthaler, Günther (*with* Woracek, Harald) A remark on permutable polynomials. (English summary) **99i:20081**

Gong, Zhimin (*with* Wang, Jian[1]; Ren, Fu yao) On computation for the multipliers of periodic orbits of polynomial maps. (English and Chinese summaries) **99h:58146**
Kisin, Mark Centralisers of Galois group actions. (English summary) **99a:12004**
Konyagin, Sergeĭ *see* **Dubickas, Artūras, 99m:11122**
Li, Xiao Pei A result on the Schur conjecture. (Chinese. English and Chinese summaries)
Panario, Daniel (*with* Richmond, L. Bruce) Analysis of Ben-Or's polynomial irreducibility test. (English summary) **99j:11141**
Ren, Fu yao *see* **Gong, Zhimin; et al., 99h:58146**
Richmond, L. Bruce *see* **Panario, Daniel, 99j:11141**
Ruppert, Wolfgang M. Reducibility of polynomials $a_0(x) + a_1(x)y + a_2(x)y^2$ modulo p. (English summary) **99j:11025**
Wang, Jian[1] *see* **Gong, Zhimin; et al., 99h:58146**
Woracek, Harald *see* **Eigenthaler, Günther, 99i:20081**
Zannier, Umberto Fields containing values of algebraic functions and related questions. **99f:12002**
— On a functional equation relating a Laurent series $f(x)$ to $f(x^m)$. (English summary) **99e:39085**
Zhi, Lihong Optimal algorithm for algebraic factoring. (English summary) **99f:12007**

12E10 Special polynomials

Bae, Sunghan The arithmetic of Carlitz polynomials. (English summary) **99b:12001**
Sáenz Cetina, José Leonardo Identities for the solution of cubic and quartic equations. (Spanish)

Items with secondary classifications in 12E10

Adrianov, Nikolai (*with* Zvonkin, Alexander) Composition of plane trees. (English summary) **99h:05026**
Alonso, Cesar (*with* Gutierrez, Jaime; Recio, Tomas) A note on separated factors of separated polynomials. (English summary) **99f:12001**
Caldwell, Chris K. Unique (period) primes and the factorization of cyclotomic polynomials minus one. (English summary) **99b:11139**
Cohen, Stephen D. (*with* Movahhedi, A.; Salinier, A.) Double transitivity of Galois groups of trinomials. **99c:11139**
Csirmaz, László Program correctness on finite fields. (English summary) **99c:68170**
Cvijović, Djurdje (*with* Klinowski, Jacek) Algebraic trigonometric numbers. (English summary) **99g:11023**
Frappier, Clément Representation formulas for entire functions of exponential type and generalized Bernoulli polynomials. (English summary) **99i:30045**
Gutierrez, Jaime *see* **Alonso, Cesar; et al., 99f:12001**
Klinowski, Jacek *see* **Cvijović, Djurdje, 99g:11023**
Movahhedi, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Recio, Tomas *see* **Alonso, Cesar; et al., 99f:12001**
Salinier, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Zvonkin, Alexander *see* **Adrianov, Nikolai, 99h:05026**

12E12 Equations

Pastor, Guillermo Cubic and quartic equations: the tulip theorem. (Spanish)

Items with secondary classifications in 12E12

Hu, Lei *see* **Liu, Mu Lan, 99m:94028**
Liu, Mu Lan (*with* Hu, Lei) Module structure of doubly periodic arrays over finite fields. (English summary) **99m:94028**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

Jehne, Wolfram Weilgruppen und Schiefkörper. [Weil groups and skew fields] (*see* **99f:01003**)
Kasch, Friedrich ★ Die Galoissche Theorie für Schiefkörper. (German) [The Galois theory of skew fields] **99a:12002**
Kegel, Otto H. Zur Einfachheit der multiplikativen Gruppe eines existentiell abgeschlossenen Schiefkörpers. (English summary) [On the simplicity of the multiplicative group of an existentially closed skew field] **99m:12002**
Lam, T. Y. A fantasia on quaternions and near-fields. **99b:12002**

Items with secondary classifications in 12E15

Fein, Burton (*with* Schacher, Murray) Relative Brauer groups of discrete valued fields. (English summary) **99f:13001**
Priess-Crampe, Sibylla (*with* Ribenboim, Paulo) The common point theorem for ultrametric spaces. (English summary)
Reichstein, Zinovy Generators of central simple algebras. (English summary) **99g:16024**
Ribenboim, Paulo *see* **Priess-Crampe, Sibylla**
Saltman, David J. Correction to: "Division algebras over p-adic curves" [J. Ramanujan Math. Soc. **12** (1997), no. 1, 25–47; MR 98d:16032]. **99k:16036**
Schacher, Murray *see* **Fein, Burton, 99f:13001**

12E20 Finite fields (field-theoretic aspects)

Nemoga, Karol (*with* Schwarz, Štefan) An explicit description of the set of all normal bases generators of a finite field. **99m:12003**
Schwarz, Štefan *see* **Nemoga, Karol, 99m:12003**

Items with secondary classifications in 12E20

Chatzidakis, Zoé Model theory of finite fields and pseudo-finite fields. (English summary) **99c:03057**
Feisel, Sandra (*with* von zur Gathen, Joachim; Shokrollahi, M. Amin) Normal bases via general Gauss periods. (English summary) **99c:11148**
García-Roig, J.-L. (*with* Martín-Gutiérrez, Emma) On a conditional Cauchy functional equation involving cubes of finite fields. I. The case of characteristic $p \equiv 1 \pmod 3$. (English summary) **99f:39039**
von zur Gathen, Joachim *see* **Feisel, Sandra; et al., 99c:11148**
Hellegouarch, Yves An application of Galois calculus to $\mathbf{F}_q[t]$. (English summary) **99j:11144**
Hines, Peter A. Characterising the linear complexity of span 1 de Bruijn sequences over finite fields. (English summary) **99b:05012**
Martín-Gutiérrez, Emma *see* **García-Roig, J.-L., 99f:39039**
Shokrollahi, M. Amin *see* **Feisel, Sandra; et al., 99c:11148**
Stafford, Richard M. Groups of permutation polynomials over finite fields. (English summary) **99j:20003**

12E25 Hilbertian fields; Hilbert's irreducibility theorem

Corvaja, P. (*with* Zannier, Umberto) Values of rational functions on non-Hilbertian fields and a question of Weissauer. (English summary) **99g:12003**
Fried, Michael D. (*with* Jarden, Moshe) On Σ-Hilbertian fields. (English summary) **99k:12004**
Jarden, Moshe *see* **Fried, Michael D., 99k:12004**
Lang, Serge Le théorème d'irréductibilité de Hilbert. [Hilbert's irreducibility theorem] (*see* **99f:00037**)
Zannier, Umberto Fields containing values of algebraic functions and related questions. **99f:12002**
— Note on g-Hilbertian fields and nonrational curves with the Hilbert property. (English summary) **99i:12001**
— *see also* **Corvaja, P., 99g:12003**

Items with secondary classifications in 12E25

Dèbes, Pierre (*with* Zannier, Umberto) Universal Hilbert subsets. (English summary) **99f:11141**
Epkenhans, Martin On double covers of the generalized alternating group $Z_d \wr \mathfrak{A}_m$ as Galois groups over algebraic number fields. **99a:12007**
Zannier, Umberto On the number of times of root of $f(n, x) = 0$ generates a field containing a given number field. (English summary) **99k:11176**
— *see also* **Dèbes, Pierre, 99f:11141**

12E99 None of the above, but in this section

Jaffard, Paul Les corps quasi-algébriquement clos (d'après Serge Lang). [Quasi-algebraically closed fields (after Serge Lang)] (*see* **99f:00034**)

Items with secondary classifications in 12E99

Pezda, Tadeusz Cycles of rational mappings in algebraically closed fields of positive characteristics. **99m:11024**

12Fxx Field extensions

Items with secondary classifications in 12Fxx

Cameron, Peter J. ★ Introduction to algebra. (English summary)

12F05 Algebraic extensions

Arian-Nejad, M. Finite simple field extensions. (English summary) **99h:12002**
Barrera-Mora, Fernando *see* **Lam-Estrada, Pablo; et al., 99c:12004**
Isaacs, I. M. (*with* Moulton, David Petrie) Real fields and repeated radical extensions. **99a:12003**
Lam-Estrada, Pablo (*with* Barrera-Mora, Fernando; Villa-Salvador, Gabriel Daniel) On Kneser extensions. (English summary) **99c:12004**
Moulton, David Petrie *see* **Isaacs, I. M., 99a:12003**
Villa-Salvador, Gabriel Daniel *see* **Lam-Estrada, Pablo; et al., 99c:12004**

Items with secondary classifications in 12F05

Sethuraman, B. A. ★ Rings, fields, and vector spaces. (English summary) **99c:12001**
Zannier, Umberto On the number of times of root of $f(n, x) = 0$ generates a field containing a given number field. (English summary) **99k:11176**

12F10 Separable extensions, Galois theory

Andrianov, Yu. A. On the Galois group of the maximal abelian p-extension of a multidimensional local field of characteristic p. (Russian. Russian summary) **99e:12002**
Efrat, Ido Small maximal pro-p Galois groups. (English summary) **99e:12005**
Engler, Antonio José Totally real rigid elements and Galois theory. (English summary) **99k:12005**
Epkenhans, Martin On the Galois group of $f(X^d)$. (English summary) **99e:12003**
Girstmair, Kurt On quadratic relations between roots of polynomials. **99i:12002**
Kable, Anthony C. (*with* Yukie, Akihiko) Prehomogeneous vector spaces and field extensions. II. **99c:12005**
Kersten, Ina Noether's problem and normalization. **99h:12003**
Kisin, Mark Centralisers of Galois group actions. (English summary) **99a:12004**
Koenigsmann, Jochen Pro-p Galois groups of rank ≤ 4. (English summary) **99e:12004**
Lundström, Patrik Self-dual normal bases for infinite Galois field extensions. (English summary) **99k:12006**
Morton, Patrick Galois groups of periodic points. **99a:12005**
Müller, Peter[1] (A_n, S_n) realizations by polynomials—on a question of Fried. (English summary) **99k:12007**
Roberts, David P. Twin sextic algebras. **99j:12001**
Rotman, Joseph J. ★ Galois theory. (English summary) **99g:12004**

Sharomet, A. A. On the absolute Galois group of a Henselian field. (Russian. English summary) (*see* **99g:20004**)
Yukie, Akihiko Prehomogeneous vector spaces and field extensions. III. **99c:12006**
— *see also* **Kable, Anthony C., 99c:12005**

Items with secondary classifications in 12F10

Barrera-Mora, Fernando *see* **Lam-Estrada, Pablo; et al., 99c:12004**
Beyer, W. A. (*with* Louck, James D.) Quadratic map iterates and Galois groups. (*see* **99h:58001**)
Black, Elena V. Deformations of dihedral 2-group extensions of fields. (English summary) **99m:12004**
Cohen, Stephen D. (*with* Movahhedi, A.; Salinier, A.) Double transitivity of Galois groups of trinomials. **99c:11139**
Conder, Marston D. E. (*with* Walker, Cameron G.) Vertex-transitive non-Cayley graphs with arbitrarily large vertex-stabilizer. (English summary) **99i:05097**
Dussaud, René Quartiques, sextiques, etc., en correspondance galoisienne. [Quartics, sextics, etc., in Galois correspondence] (*see* **99k:00023**)
Gaal, Lisl ★ Classical Galois theory. **99g:12001**
Geyer, Wulf-Dieter (*with* Jarden, Moshe) Bounded realization of l-groups over global fields. The method of Scholz and Reichardt. (English summary) **99d:12001**
Haran, Dan (*with* Jarden, Moshe) Regular split embedding problems over function fields of one variable over ample fields. **99h:12005**
Horng, Gwoboa (*with* Huang, Ming-Deh A.) Solving polynomials by radicals with roots of unity in minimum depth. (English summary) **99i:12009**
Huang, Ming-Deh A. *see* **Horng, Gwoboa, 99i:12009**
Jarden, Moshe *see* **Geyer, Wulf-Dieter, 99d:12001** *and* **Haran, Dan, 99h:12005**
Kasch, Friedrich ★ Die Galoissche Theorie für Schiefkörper. (German) [The Galois theory of skew fields] **99a:12002**
Kohl, Timothy Classification of the Hopf Galois structures on prime power radical extensions. (English summary) **99g:16049**
Lam-Estrada, Pablo (*with* Barrera-Mora, Fernando; Villa-Salvador, Gabriel Daniel) On Kneser extensions. (English summary) **99c:12004**
Louck, James D. *see* **Beyer, W. A., (99h:58001)**
Movahhedi, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Pop, Florian Glimpses of Grothendieck's anabelian geometry. **99f:14026**
Salinier, A. *see* **Cohen, Stephen D.; et al., 99c:11139**
Serre, Jean-Pierre Structure de certains pro-p-groupes (d'après Demuškin). [Structure of certain pro-p-groups (after Demushkin)] (*see* **99f:00040**)
Tsuzuki, Nobuo The local index and the Swan conductor. (English summary) **99g:14021**
Villa-Salvador, Gabriel Daniel *see* **Lam-Estrada, Pablo; et al., 99c:12004**
Walker, Cameron G. *see* **Conder, Marston D. E., 99i:05097**
Ware, Roger Witt rings and the quaternion group. (English summary) **99h:11043**
Zieve, Michael Bivariate factorizations via Galois theory, with application to exceptional polynomials. (English summary) **99m:12001**

12F12 Inverse Galois theory

Adrianov, Nikolai (*with* Shabat, G. B.) Unicellular cartography and Galois orbits of plane trees. **99h:12004**
Black, Elena V. Arithmetic lifting of dihedral extensions. **99a:12006**
— Deformations of dihedral 2-group extensions of fields. (English summary) **99m:12004**
Crespo, Teresa Construction of $2^m S_n$-fields containing a C_{2^m}-field. **99f:12003**
Dèbes, Pierre (*with* Deschamps, Bruno) The regular inverse Galois problem over large fields. **99j:12002**
— (*with* Harbater, David) Fields of definition of p-adic covers. (English summary) **99e:12006**
Deschamps, Bruno *see* **Dèbes, Pierre, 99j:12002**
Epkenhans, Martin On double covers of the generalized alternating group $Z_d \wr \mathfrak{A}_m$ as Galois groups over algebraic number fields. **99a:12007**
Fried, Michael D. (*with* Kopeliovich, Yaacov) Applying modular towers to the inverse Galois problem. (English summary) **99k:12008**
Geyer, Wulf-Dieter (*with* Jarden, Moshe) Bounded realization of l-groups over global fields. The method of Scholz and Reichardt. (English summary) **99d:12001**
Haran, Dan (*with* Jarden, Moshe) Regular split embedding problems over complete valued fields. (English summary) **99e:12007**
— (*with* Jarden, Moshe) Regular split embedding problems over function fields of one variable over ample fields. **99h:12005**
Harbater, David *see* **Dèbes, Pierre, 99e:12006**
Jarden, Moshe *see* **Geyer, Wulf-Dieter, 99d:12001**; **Haran, Dan, 99e:12007** *and* **99h:12005**
Kopeliovich, Yaacov *see* **Fried, Michael D., 99k:12008**
Ledet, Arne Embedding problems with cyclic kernel of order 4. (English summary) **99k:12009**
Matzat, B. Heinrich Fortschritte in der inversen Galoistheorie. [Progress in inverse Galois theory] **99m:12005**
Mestre, Jean-François Extensions $\mathbf{Q}$-régulières de $\mathbf{Q}(t)$ de groupe de Galois $6.A_6$ et $6.A_7$. (English summary) [$\mathbf{Q}$-regular extensions of $\mathbf{Q}(t)$ with Galois groups $6.A_6$ and $6.A_7$] **99i:12003**
Shabat, G. B. *see* **Adrianov, Nikolai, 99h:12004**
Thompson, John G. (*with* Völklein, Helmut) Symplectic groups as Galois groups. **99c:12007**
Völklein, Helmut Rigid generators of classical groups. **99g:12005**
— *see also* **Thompson, John G., 99c:12007**

Items with secondary classifications in 12F12

Harbater, David (*with* Schneps, Leila) Approximating Galois orbits of dessins. **99f:14031**
Jones, Gareth A. Characters and surfaces: a survey. (English summary) **99j:20056**
Magaard, Kay (*with* Strambach, Karl; Völklein, Helmut) Finite quotients of the pure symplectic braid group. (English summary) **99j:20048**
Nauheim, Raphael Systems of algebraic equations with bad reduction. (English summary) **99c:65106**
Schneps, Leila *see* **Harbater, David, 99f:14031**
Strambach, Karl (*with* Völklein, Helmut) The symplectic braid group and Galois realizations. **99j:20047**
— *see also* **Magaard, Kay; et al., 99j:20048**
Völklein, Helmut *see* **Strambach, Karl, 99j:20047** *and* **Magaard, Kay; et al., 99j:20048**

12F20 Transcendental extensions

Alexandru, Victor (*with* Popescu, A.; Popescu, Nicolae) Completion of r.t. extensions of local fields. II. **99m:12006**
Khanduja, Sudesh K. Valued function fields with given genus and residue field. **99c:12008**
Mead, D. G. (*with* Stein, S. K.) Some algebra of Newton polynomials. **99h:12006**
Neumann, Konrad Every finitely generated regular field extension has a stable transcendence base. (English summary) **99d:12002**
Popescu, A. *see* **Alexandru, Victor; et al., 99m:12006**
Popescu, Nicolae *see* **Alexandru, Victor; et al., 99m:12006**
Stein, S. K. *see* **Mead, D. G., 99h:12006**

Items with secondary classifications in 12F20

Alexandru, Victor (*with* Popescu, Nicolae) The Lüroth's theorem for some complete valued fields. **99h:12007**
— (*with* Popescu, Nicolae; Zaharescu, Alexandru) On the closed subfields of $\mathbf{C}_p$. **99k:11182**
Kersten, Ina Noether's problem and normalization. **99h:12003**
Khanduja, Sudesh K. An independence theorem in simple transcendental extensions of valued fields. **99g:12008**
Popescu, Nicolae *see* **Alexandru, Victor, 99h:12007** *and* **99k:11182**
Zaharescu, Alexandru *see* **Alexandru, Victor; et al., 99k:11182**

12F99 None of the above, but in this section

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Ahmad, Hamza (*with* Hajja, Mowaffaq; Kang, Ming-chang) Negligibility of projective linear automorphisms. (English summary) **99c:13008**
Hajja, Mowaffaq *see* **Ahmad, Hamza; et al., 99c:13008**
Jaffard, Paul Anneaux d'adèles d'après Iwasawa. [Rings of adèles, after Iwasawa] (*see* **99f:00035**)
Kang, Ming-chang *see* **Ahmad, Hamza; et al., 99c:13008**

12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 13A20, 16H05]

Elman, Richard (*with* Lum, Christopher) On the cohomological 2-dimension of fields. **99m:12007**
Lorenz, Falko Ein Scholion zum Satz 90 von Hilbert. (German summary) [A comment on Hilbert's 90th theorem] **99i:12004**
Lum, Christopher *see* **Elman, Richard, 99m:12007**
Saltman, David J. H^3 and generic matrices. (English summary) **99b:12003**
— Ramification and lattices. **99b:12004**

Items with secondary classifications in 12G05

Chipchakov, I. D. Henselian valued stable fields. **99i:13003**
Efrat, Ido Small maximal pro-p Galois groups. (English summary) **99e:12005**
Epkenhans, Martin On double covers of the generalized alternating group $Z_d \wr \mathfrak{A}_m$ as Galois groups over algebraic number fields. **99a:12007**
Frossard, Emmanuelle Groupe de Chow de dimension zéro des fibrations en variétés de Severi-Brauer. (English summary) [Zero-dimensional Chow group of fibrations in Severi-Brauer varieties] **99c:14011**
Guletskiĭ, V. I. (*with* Margolin, G. L.; Yanchevskiĭ, V. I.) Representation of 2-torsion in Brauer groups of curves by quaternion algebras. (Russian. English and Russian summaries) **99k:14046**
Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) On the group $H^3(F(\varphi, D)/F)$. (English summary) **99b:11038**
— (*with* Karpenko, Nikita A.) Isotropy of six-dimensional quadratic forms over function fields of quadrics. (English summary) **99j:11039**
Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 99b:11038** *and* **99j:11039**
Koenigsmann, Jochen Pro-p Galois groups of rank ≤ 4. (English summary) **99e:12004**
Margolin, G. L. *see* **Guletskiĭ, V. I.; et al., 99k:14046**
Nguyễn Quốc Thắng Corestriction principle in nonabelian Galois cohomology. **99e:11048**
Peyre, Emmanuel Galois cohomology in degree three and homogeneous varieties. (English summary) **99k:14017**
Serre, Jean-Pierre Cohomologie et arithmétique. [Cohomology and arithmetic] (*see* **99f:00034**)
Yanchevskiĭ, V. I. *see* **Guletskiĭ, V. I.; et al., 99k:14046**

12G10 Cohomological dimension

Items with secondary classifications in 12G10

Ducros, Antoine Dimension cohomologique et points rationnels sur les courbes. [Cohomological dimension and rational points on curves] **99e:14024**

12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

Adjamagbo, Kossivi (*with* Rigal, Laurent) Sur les vecteurs cycliques et les éléments primitifs différentiels. [On cyclic vectors and differential primitive elements] **99f:12004**
Bekbaev, U. D. (*with* Muminov, K. K.) Equivalence and invariant elementary surfaces with respect to the symplectic group. (Russian. English and Uzbek summaries) **99f:12005**
— (*with* Rakhimov, I. S.) On the equivalence of linear ordinary differential equations defined over an associative differential ring. (Russian. English and Uzbek summaries) **99j:12003**
Buium, Alexandru ★ Differential algebra and Diophantine geometry. (English summary) **99k:12010**
Carrà Ferro, Giuseppa A resultant theory for ordinary algebraic differential equations. (English summary) **99m:12008**
Compoint, E. E-fonctions hypergéométriques et groupes de Galois orthogonaux. (French summary) [Hypergeometric E-functions and orthogonal Galois groups] **99d:12003**
Fahim, Abdelmajid Extensions galoisiennes d'algèbres différentielles. (English summary) [Galois extensions of differential algebras] **99c:12009**
Gonçalves, J. Z. (*with* Shirvani, Mazi) On the codimension of the image of a derivation in a commutative field. (English summary) **99e:12008**
Kandri Rody, Abdelilah (*with* Maârouf, Hamid; Ssafini, Mohamed) Triviality and dimension of a system of algebraic differential equations. (English summary) **99b:12005**
Khakimdjanova, Kamola Espaces vectoriels différentiels. [Differential vector spaces] **99i:12005**
Kul'chinovskiĭ, V. B. Ordered differential fields. (English summary) **99i:12006**
Maârouf, Hamid *see* **Kandri Rody, Abdelilah; et al., 99b:12005**
Marker, David (*with* Pillay, Anand) Differential Galois theory. III. Some inverse problems. **99m:12011**
Muminov, K. K. *see* **Bekbaev, U. D., 99f:12005**
Nishioka, Keiji The first equation of Painlevé—differential algebraic aspects. (English summary) **99j:12004**
— Lie extensions. **99b:12006**
Pierce, David (*with* Pillay, Anand) A note on the axioms for differentially closed fields of characteristic zero. (English summary) **99g:12006**
Pillay, Anand Differential Galois theory. II. (English summary) **99m:12010**
— Differential Galois theory. I. **99m:12009**
— *see also* **Pierce, David, 99g:12006** *and* **Marker, David, 99m:12011**
Rakhimov, I. S. *see* **Bekbaev, U. D., 99j:12003**
Rigal, Laurent *see* **Adjamagbo, Kossivi, 99f:12004**
Shirvani, Mazi *see* **Gonçalves, J. Z., 99e:12008**
Ssafini, Mohamed *see* **Kandri Rody, Abdelilah; et al., 99b:12005**
Umemura, Hiroshi Lie-Drach-Vessiot theory—infinite-dimensional differential Galois theory. **99c:12010**
Zharinov, V. V. On differentiations in differential algebras. (English summary) **99a:12008**

Items with secondary classifications in 12H05

Baltag, V. A. (*with* Vulpe, N. I.) Total multiplicity of all finite critical points of the polynomial differential system. (English summary) **99k:34053**
Bekbaev, U. D. On invariants of second order linear partial differential equations in two variables: relative to transformations of variables and unknown. **99h:35006**
Borowiec, Andrzej (*with* Kharchenko, V. K.) Coordinate calculi on associative algebras. (English summary) **99i:58013**
Carrà Ferro, Giuseppa Triangular matrices, differential resultants and systems of linear homogeneous PDEs. (English summary) **99i:35004**
Ginocchio, Maurice On the bialgebra of functional graphs and differential algebras. (English summary) **99f:05114**
Hubert, Evelyne Detecting degenerate behaviors in first order algebraic differential equations. (English summary) **99b:34002**
Kharchenko, V. K. *see* **Borowiec, Andrzej, 99i:58013**
Kinnunen, Liisa (*with* Laine, Ilpo; Rieppo, Jarkko) Remarks concerning $f'' + A(z)f = 0$ and some fields of meromorphic functions. (English summary) **99a:34010**
Laine, Ilpo *see* **Kinnunen, Liisa; et al., 99a:34010**
Morikawa, Hisasi On differential polynomials. I, II. (English summary) **99m:05013**
van der Put, Marius Reduction modulo p of differential equations. **99e:12009**
Rakhimov, I. S. Description of the differential field of invariant differential rational functions for a representation of the group $SL(k, F)$. (Russian. English and Uzbek summaries)
Rieppo, Jarkko *see* **Kinnunen, Liisa; et al., 99a:34010**
Sharif, Habib E-algebraic functions over fields of positive characteristic—an analogue of differentially algebraic functions. (English summary) **99k:12011**
Skoŕnik, Krystyna (*with* Wloka, J.) Factoring and splitting of S-differential equations in the field of Mikusiński. (English summary) **99e:34006**
Thomas, Gabriel The problem of defining the singular points of quasi-linear differential-algebraic systems. (English summary) **99e:34010**
Umemura, Hiroshi (*with* Watanabe, Humihiko) Solutions of the third Painlevé equation. I. (English summary) **99k:34016**
Vulpe, N. I. *see* **Baltag, V. A., 99k:34053**
Watanabe, Humihiko *see* **Umemura, Hiroshi, 99k:34016**
Wloka, J. *see* **Skoŕnik, Krystyna, 99e:34006**
Żołądek, Henryk The extended monodromy group and Liouvillian first integrals. (English summary) **99d:34014**

12H10 Difference algebra [see also 39Axx]

Items with secondary classifications in 12H10

Chen, Guoting (*with* Fahim, Abdelmajid) Formal reduction of linear difference systems. (English summary) **99d:39004**
Fahim, Abdelmajid *see* **Chen, Guoting, 99d:39004**
Ramayyan, A. (*with* Thandapani, E.) Second order linear difference equations over discrete Hardy fields. (English summary) **99g:39014**
Sharif, Habib E-algebraic functions over fields of positive characteristic—an analogue of differentially algebraic functions. (English summary) **99k:12011**
Thandapani, E. *see* **Ramayyan, A., 99g:39014**

12H20 Abstract differential equations [see also 34Gxx]

Blaga, Alin On factorization over $k((z))[\delta]$. (English summary) **99i:12007**
Blanchard, André Groupes algébriques et équations différentielles linéaires (d'après E. R. Kolchin). [Algebraic groups and linear differential equations (after E. R. Kolchin)] (*see* **99f:00033**)
Hoeppner, Sabine Differential equations with 2-term recursion. (English summary) **99g:12007**

Items with secondary classifications in 12H20

Bruno, Alexander D. Power geometry. (English summary) **99h:34060**
Elizarraraz, David (*with* Verde-Star, Luis) On a class of differential equations that contains the equations of Euler and Chebyshev. **99g:34027**
van der Hoeven, Joris ★ Asymptotique automatique. (English and French summaries) [Automatic asymptotics] **99h:34078**
Kandri Rody, Abdelilah (*with* Maârouf, Hamid; Ssafini, Mohamed) Triviality and dimension of a system of algebraic differential equations. (English summary) **99b:12005**
Koepf, Wolfram The algebra of holonomic equations. (English summary) **99f:68113**
Maârouf, Hamid *see* **Kandri Rody, Abdelilah; et al., 99b:12005**
Sheng, Pingxing Hilbert's sixteenth problem. (English summary) **99j:34040**
Ssafini, Mohamed *see* **Kandri Rody, Abdelilah; et al., 99b:12005**
Verde-Star, Luis *see* **Elizarraraz, David, 99g:34027**
Zwiesler, H. J. Consequences of the meromorphic equivalence of standard matrix differential equations. (English summary) **99d:34015**

12H25 p-adic differential equations [see also 11S80, 14G20, 34Gxx]

André, Yves[1] (*with* Baldassarri, Francesco) Geometric theory of G-functions. (English summary) **99c:12011**
Baldassarri, Francesco *see* **André, Yves[1], 99c:12011**
Christol, G. (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. II. [On the index theorem for p-adic differential equations. II] **99a:12009**
Loeser, François Exposants p-adiques et théorèmes d'indice pour les équations différentielles p-adiques (d'après G. Christol et Z. Mebkhout). (French summary) [p-adic exponents and index theorems for p-adic differential equations (after G. Christol and Z. Mebkhout)] **99f:12006**
Mebkhout, Zoghman *see* **Christol, G., 99a:12009**
Nagata, Makoto G-functions and number theory. (Japanese) (*see* **99d:11001**)
van der Put, Marius Reduction modulo p of differential equations. **99e:12009**

Items with secondary classifications in 12H25

Carpentier, Michel Sommes de Kloosterman généralisées: l'équation fonctionnelle. [Generalized Kloosterman sums: the functional equation] **99a:11097**
Hoeppner, Sabine Differential equations with 2-term recursion. (English summary) **99g:12007**
Sharif, Habib E-algebraic functions over fields of positive characteristic—an analogue of differentially algebraic functions. (English summary) **99k:12011**

12H99 None of the above, but in this section

Sharif, Habib E-algebraic functions over fields of positive characteristic—an analogue of differentially algebraic functions. (English summary) **99k:12011**

Items with secondary classifications in 12H99

Zhou, Ding-Xuan Solvability of linear systems of PDE's with constant coefficients. (English summary) **99j:35018**

12Jxx Topological fields

12J05 Normed fields

Scărlătescu, Silvia A fixed-point theorem for ultrametric fields. (Romanian. English and Romanian summaries) **99j:12005**

12J10 Valued fields

Alexandru, Victor (*with* Popescu, Nicolae) The Lüroth's theorem for some complete valued fields. **99h:12007**
Cohen, Jo-Ann (*with* Mathews, David; Shell, Niel) F-transcendental Ostrowski nets. (English summary) **99b:12007**
Jaffard, Paul Anneaux d'adèles d'après Iwasawa. [Rings of adèles, after Iwasawa] (*see* **99f:00035**)
Khanduja, Sudesh K. An independence theorem in simple transcendental extensions of valued fields. **99g:12008**
— Tame fields and tame extensions. (English summary) **99a:12010**
Kontolatou, Angeliki (*with* Stabakis, John) Some remarks on topologies induced by a G-valuation in a field. **99a:12011**
Mathews, David *see* **Cohen, Jo-Ann; et al., 99b:12007**
Muñoz Garcia, E. Hölder absolute values are equivalent to classical ones. (English summary) **99j:12006**
Popescu, Nicolae *see* **Alexandru, Victor, 99h:12007**
Shell, Niel *see* **Cohen, Jo-Ann; et al., 99b:12007**
Stabakis, John *see* **Kontolatou, Angeliki, 99a:12011**

Items with secondary classifications in 12J10

Boulagouaz, M'hammed Une généralisation du lemme de Hensel. (French summary) [A generalization of Hensel's lemma] **99i:13034**
Chipchakov, I. D. Henselian valued stable fields. **99i:13003**
Haran, Dan (*with* Jarden, Moshe) Regular split embedding problems over complete valued fields. (English summary) **99e:12007**
Holly, Jan E. Prototypes for definable subsets of algebraically closed valued fields. (English summary) **99k:03033**
Jarden, Moshe *see* **Haran, Dan**, **99e:12007**
Khanduja, Sudesh K. Valued function fields with given genus and residue field. **99c:12008**

12J15 Ordered fields

Items with secondary classifications in 12J15

Dickmann, M. A. A combinatorial geometric structure on the space of orders of a field. I. (English summary) **99c:05043**
Gritzmann, Peter (*with* Klee, Victor) Separation by hyperplanes in finite-dimensional vector spaces over Archimedean ordered fields. (English summary) **99k:46012**
Kaiser, Richard ★ Das sphärische Spektrum eines graduierten Ringes. (German) [The spherical spectrum of a graded ring] **99i:14069**
Klee, Victor *see* **Gritzmann, Peter**, **99k:46012**
Kul'chinovskiĭ, V. B. Ordered differential fields. (English summary) **99i:12006**

12J20 General valuation theory

Khanduja, Sudesh K. On Krasner's constant. (English summary) **99m:12012**
Teissier, Bernard Three facts of valuation theory. **99k:12012**

Items with secondary classifications in 12J20

Alexandru, Victor (*with* Popescu, Nicolae) The Lüroth's theorem for some complete valued fields. **99h:12007**
Haskell, Deirdre (*with* Macpherson, Dugald) A note on valuation definable expansions of fields. **99m:03069**
Khanduja, Sudesh K. Tame fields and tame extensions. (English summary) **99a:12010**
Koenigsmann, Jochen Pro-p Galois groups of rank ≤ 4. (English summary) **99e:12004**
Macpherson, Dugald *see* **Haskell, Deirdre**, **99m:03069**
Popescu, Nicolae *see* **Alexandru, Victor**, **99h:12007**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Items with secondary classifications in 12J25

Alexandru, Victor (*with* Popescu, Nicolae; Zaharescu, Alexandru) On the closed subfields of $\mathbf{C}_p$. **99k:11182**
— (*with* Popescu, A.; Popescu, Nicolae) Completion of r.t. extensions of local fields. II. **99m:12006**
Borceux, Francis (*with* Grandjean, Françoise) Descent theory and Morita theory for ultrametric Banach modules. (English summary) **99e:46058**
Boutabaa, Abdelbaki (*with* Escassut, Alain; Haddad, Labib) On uniqueness of p-adic entire functions. (English summary) **99j:30051**
— (*with* Escassut, Alain) On uniqueness of p-adic meromorphic functions. (English summary) **99a:46136**
Escassut, Alain (*with* Mainetti, Nicolas) Spectral semi-norm of a p-adic Banach algebra. (English summary) **99b:46119**
— *see also* **Boutabaa, Abdelbaki**, **99a:46136** *and* **99j:30051**
Grandjean, Françoise *see* **Borceux, Francis**, **99e:46058**
Haddad, Labib *see* **Boutabaa, Abdelbaki; et al.**, **99j:30051**
Keller, Hans Arwed (*with* Ochsenius A., Herminia) On the geometry of orthomodular spaces over fields of power series. (English summary) **99f:47095**
Khrennikov, Andrei p-adic analogues of the law of large numbers and the central limit theorem. **99b:11085**
Kontolatou, Angeliki (*with* Stabakis, John) Some remarks on topologies induced by a G-valuation in a field. **99a:12011**
Kul'chinovskiĭ, V. B. Ordered differential fields. (English summary) **99i:12006**
Mainetti, Nicolas *see* **Escassut, Alain**, **99b:46119**
Nagata, Makoto G-functions and number theory. (Japanese) (*see* **99d:11001**)
Ochsenius A., Herminia *see* **Keller, Hans Arwed**, **99f:47095**
Popescu, A. *see* **Alexandru, Victor; et al.**, **99m:12006**
Popescu, Nicolae *see* **Alexandru, Victor; et al.**, **99k:11182** *and* **99m:12006**
Rangan, G. p-adic functional analysis and applications. **99g:46110**
Stabakis, John *see* **Kontolatou, Angeliki**, **99a:12011**
Voloch, José Felipe Differential operators and interpolation series in power series fields. **99j:13019**
Zaharescu, Alexandru *see* **Alexandru, Victor; et al.**, **99k:11182**

12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]

Escassut, Alain Dissociated functions and p-adic characters. (English summary) **99m:12013**

12J99 None of the above, but in this section

Marcos, J. E. The field of rational numbers is algebraically closed in some of its topological completions. (English summary) **99d:12004**

Items with secondary classifications in 12J99

Koshiba, Yôichi On compact open topology in the case of local fields. **99f:54048**

12Kxx Generalizations of fields

12K05 Near-fields [see also 16Y30]

Zayed, Maher On formal extensions of near-fields. (English summary)

Items with secondary classifications in 12K05

Lam, T. Y. A fantasia on quaternions and near-fields. **99b:12002**
Wähling, Heinz Ordered nearfields. **99c:06021**

12K10 Semifields [see also 16Y60]

Mitchell, Sidney S. Convex algebra. (*see* **99g:00046**)
Wene, G. P. A group of semifields. (English summary) **99a:12012**

12K99 None of the above, but in this section

Johnson, Corlis Powell Group distributive quasigroup algebras. (English summary) **99m:12014**

12Lxx Connections with logic

12L05 Decidability [see also 03B25]

Items with secondary classifications in 12L05

(Caviness, B. F.) *see* **Quantifier elimination and cylindrical algebraic decomposition**, **99b:03007**
Collins, George E. Quantifier elimination by cylindrical algebraic decomposition—twenty years of progress. (*see* **99b:03007**)
— Quantifier elimination for real closed fields by cylindrical algebraic decomposition. (*see* **99b:03007**)
(Johnson, Jeremy R.) *see* **Quantifier elimination and cylindrical algebraic decomposition**, **99b:03007**
Tarski, Alfred A decision method for elementary algebra and geometry. (*see* **99b:03007**)
Videla, Carlos R. On the constructible numbers. (English summary) **99f:03047**

Items listed otherwise than by author

Introduction Introduction. (*see* **99b:03007**)
Linz ★ Quantifier elimination and cylindrical algebraic decomposition. **99b:03007**
Quantifier elimination and cylindrical algebraic decomposition ★ Quantifier elimination and cylindrical algebraic decomposition. **99b:03007**
Symposium:
Quantifier Elimination and Cylindrical Algebraic Decomposition ★ Quantifier elimination and cylindrical algebraic decomposition. **99b:03007**

12L12 Model theory [see also 03C60]

Items with secondary classifications in 12L12

(Bouscaren, Elisabeth) *see* **Model theory and algebraic geometry**, **99k:03032**
(Hrushovski, E.) *see* **Model theory and algebraic geometry**, **99k:03032**
Lejeune, Hélène Paires élémentaires de corps pseudo-finis: dénombrement des complétions. (English and French summaries) [Elementary pairs of pseudofinite fields: counting completions] **99g:03037**
Macintyre, Angus Generic automorphisms of fields. (English summary) **99c:03046**
Marker, David (*with* Miller, Chris) Levelled o-minimal structures. (English summary) **99c:03060**
Miller, Chris *see* **Marker, David**, **99c:03060**
Pillay, Anand Differential Galois theory. I. **99m:12009**
Wang, Shi Qiang The Goldbach 3-primes property for polynomial rings over certain infinite fields. (English summary) **99k:11158**

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Lecture Notes in Mathematics ★ Model theory and algebraic geometry. **99k:03032**
Model theory and algebraic geometry ★ Model theory and algebraic geometry. **99k:03032**

12Y05 Computational aspects of field theory and polynomials

Brawley, Joel V. (*with* Gao, Shu Hong; Mills, Donald) Computing composed products of polynomials. (English summary) **99i:12008**
Cai, Jin-Yi Frobenius's degree formula and Toda's polynomials. (English summary) **99a:12013**
Gao, Shu Hong *see* **Brawley, Joel V.; et al.**, **99i:12008**
Horng, Gwoboa (*with* Huang, Ming-Deh A.) Solving polynomials by radicals with roots of unity in minimum depth. (English summary) **99i:12009**
Huang, Ming-Deh A. *see* **Horng, Gwoboa**, **99i:12009**
Mills, Donald *see* **Brawley, Joel V.; et al.**, **99i:12008**
Pan, Victor Y. Approximate polynomial gcds, Padé approximation, polynomial zeros and bipartite graphs. (English summary) **99g:12009**
Zhi, Lihong Optimal algorithm for algebraic factoring. (English summary) **99f:12007**

Items with secondary classifications in 12Y05

Allouche, Jean-Paul (*with* von Haeseler, Fritz; Lange, Ehler; Petersen, Antje; Skordev, Gencho S.) Linear cellular automata and automatic sequences. (English summary) **99a:11023**

Bürgisser, Peter (*with* Clausen, Michael; Shokrollahi, M. Amin) ★ Algebraic complexity theory. **99c:68002**

Cassou-Noguès, Pierrette (*with* Couveignes, Jean-Marc) Factorisations explicites de $g(y) - h(z)$. [Explicit factorizations of $g(y) - h(z)$] **99m:11023**

Cherly, Jørgen (*with* Gallardo, Luis; Vaserstein, Leonid; Wheland, Ethel) Solving quadratic equations over polynomial rings of characteristic two. (English summary) **99e:13030**

Clausen, Michael *see* **Bürgisser, Peter; et al., 99c:68002**

Couveignes, Jean-Marc *see* **Cassou-Noguès, Pierrette, 99m:11023**

Daberkow, M. (*with* Fieker, C.; Klüners, Jürgen; Pohst, Michael E.; Roegner, K.; Schörnig, M.; Wildanger, K.) KANT V4. (English summary) **99g:11150**

Egidi, Lavinia A quantifier elimination for the theory of p-adic numbers. (English summary) **99m:68082**

Fieker, C. *see* **Daberkow, M.; et al., 99g:11150**

Gallardo, Luis *see* **Cherly, Jørgen; et al., 99e:13030**

von Haeseler, Fritz *see* **Allouche, Jean-Paul; et al., 99a:11023**

van der Hoeven, Joris Generic asymptotic expansions. (English summary) **99c:11158**

Hohl, Jean-Christophe Massively parallel search for linear factors in polynomials with many variables. (English summary) **99b:65186**

Hong, Hoon Bounds for absolute positiveness of multivariate polynomials. (English summary) **99k:12002**

Karmarkar, N. K. (*with* Lakshman, Y. N.) On approximate GCDs of univariate polynomials. (English summary) **99j:68059**

Klüners, Jürgen *see* **Daberkow, M.; et al., 99g:11150**

Lakshman, Y. N. *see* **Karmarkar, N. K., 99j:68059**

Lange, Ehler *see* **Allouche, Jean-Paul; et al., 99a:11023**

(Lickteig, Thomas) *see* **Bürgisser, Peter; et al., 99c:68002**

Petersen, Antje *see* **Allouche, Jean-Paul; et al., 99a:11023**

Pohst, Michael E. *see* **Daberkow, M.; et al., 99g:11150**

Powers, Victoria (*with* Wörmann, Thorsten) An algorithm for sums of squares of real polynomials. (English summary) **99a:11047**

Roegner, K. *see* **Daberkow, M.; et al., 99g:11150**

Schörnig, M. *see* **Daberkow, M.; et al., 99g:11150**

Shokrollahi, M. Amin *see* **Bürgisser, Peter; et al., 99c:68002**

Skordev, Gencho S. *see* **Allouche, Jean-Paul; et al., 99a:11023**

Stein, Greg Traces of roots of unity over prime fields. (English summary) **99g:11145**

Vaserstein, Leonid *see* **Cherly, Jørgen; et al., 99e:13030**

Wheland, Ethel *see* **Cherly, Jørgen; et al., 99e:13030**

Wildanger, K. *see* **Daberkow, M.; et al., 99g:11150**

Wörmann, Thorsten *see* **Powers, Victoria, 99a:11047**

13–XX Commutative rings and algebras

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berger, Robert W. Kommutative algebra. II. [Commutative algebra. II] **99b:13001**
Chatters, A. W. (*with* Hajarnavis, C. R.) ★ An introductory course in commutative algebra. (English summary) **99g:13001**
Hajarnavis, C. R. *see* **Chatters, A. W., 99g:13001**

Items with secondary classifications in 13–01

Cameron, Peter J. ★ Introduction to algebra. (English summary)
Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Using algebraic geometry. (English summary) **99h:13033**
Little, John B. *see* **Cox, David A.; et al., 99h:13033**
O'Shea, Donal *see* **Cox, David A.; et al., 99h:13033**
Papini, Odile (*with* Wolfmann, Jacques) ★ Algèbre discrète et codes correcteurs. (French. French summary) [Discrete algebra and error correcting codes] **99e:94039**
(Reid, Miles) *see* **Shafarevich, Igor R., 99g:00009**
Sethuraman, B. A. ★ Rings, fields, and vector spaces. (English summary) **99c:12001**
Shafarevich, Igor R. ★ Basic notions of algebra. **99g:00009**
Wallace, D. A. R. ★ Groups, rings and fields. (English summary) **99i:20001**
Wolfmann, Jacques *see* **Papini, Odile, 99e:94039**

13–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 13–02

(Eisenbud, David) *see* **Vasconcelos, Wolmer V., 99c:13048**
(Grayson, Daniel R.) *see* **Vasconcelos, Wolmer V., 99c:13048**
(Herzog, Jürgen) *see* **Vasconcelos, Wolmer V., 99c:13048**
Huneke, Craig Tight closure, parameter ideals, and geometry. **99j:13001**
(Stillman, Michael) *see* **Vasconcelos, Wolmer V., 99c:13048**
Valla, Giuseppe Problems and results on Hilbert functions of graded algebras. **99k:13022**
Vasconcelos, Wolmer V. ★ Computational methods in commutative algebra and algebraic geometry. (English summary) **99c:13048**

13–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 13–03

(Auslander, Maurice) *see* **Buchsbaum, David A., 99g:20078**
Buchsbaum, David A. Intertwined with Maurice. **99g:20078**
Faith, Carl ★ Rings and things and a fine array of twentieth century associative algebra. (English summary) **99j:01015**
(Hensel, Kurt) *see* **Ullrich, Peter, 99k:01029**
Kleiner, Israel From numbers to rings: the early history of ring theory. (German summary) **99d:01020**
Lubet, Jean-Pierre De Lambert à Cauchy: la résolution des équations littérales par le moyen des séries. (English and French summaries) [From Lambert to Cauchy: solving equations by means of series] **99m:01016**
(Noether, Emmy) *see* **Heritage of Emmy Noether, 99g:01001**
(Teicher, Mina) *see* **Heritage of Emmy Noether, 99g:01001**
Ullrich, Peter The genesis of Hensel's p-adic numbers. (English summary) **99k:01029**

Items listed otherwise than by author

Conference:
  Heritage of Emmy Noether ★ The heritage of Emmy Noether. **99g:01001**
Heritage of Emmy Noether ★ The heritage of Emmy Noether. **99g:01001**
Memorial Volume:
  Noether, Emmy ★ The heritage of Emmy Noether. **99g:01001**
Ramat-Gan ★ The heritage of Emmy Noether. **99g:01001**

13–06 Proceedings, conferences, collections, etc.

(Elías, Juan) *see* **Six lectures on commutative algebra, 99e:13001**
(Geramita, Anthony V.) *see* **Seminar: Curves, 99m:13001**
(Giral Silió, José María) *see* **Six lectures on commutative algebra, 99e:13001**
(Miró-Roig, Rosa M.) *see* **Six lectures on commutative algebra, 99e:13001**
(Zarzuela Armengou, Santiago) *see* **Six lectures on commutative algebra, 99e:13001**

Items listed otherwise than by author

Bellaterra ★ Six lectures on commutative algebra. **99e:13001**
Kingston, ON ★ The Curves Seminar at Queen's. Vol. XII. **99m:13001**
Progress in Mathematics ★ Six lectures on commutative algebra. **99e:13001**
School:
  Commutative Algebra ★ Six lectures on commutative algebra. **99e:13001**
Seminar:
  Curves ★ The Curves Seminar at Queen's. Vol. XII. **99m:13001**
Six lectures on commutative algebra ★ Six lectures on commutative algebra. **99e:13001**

Items with secondary classifications in 13–06

(Cohen, Arjeh Marcel) *see* **Some tapas of computer algebra, 99k:00038**
(Cuypers, Hans) *see* **Some tapas of computer algebra, 99k:00038**
(Greuel, Gert-Martin) *see* **Algorithmic algebra and number theory, 99h:00020**
(Hiss, Gerhard) *see* **Algorithmic algebra and number theory, 99h:00020**
(Matzat, B. Heinrich) *see* **Algorithmic algebra and number theory, 99h:00020**
(Sterk, Hans) *see* **Some tapas of computer algebra, 99k:00038**

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Algorithmic algebra and number theory ★ Algorithmic algebra and number theory. **99h:00020**
Conference:
  Algorithmic Algebra and Number Theory ★ Algorithmic algebra and number theory. **99h:00020**
Heidelberg ★ Algorithmic algebra and number theory. **99h:00020**
Some tapas of computer algebra ★ Some tapas of computer algebra. **99k:00038**

13Axx General commutative ring theory

13A02 Graded rings [see also 16W50]

Items with secondary classifications in 13A02

Herzog, Jürgen (*with* Popescu, Dorin) Hilbert functions and generic forms. (English summary) **99k:13021**
Kaiser, Richard ★ Das sphärische Spektrum eines graduierten Ringes. (German) [The spherical spectrum of a graded ring] **99i:14069**
Kussin, Dirk Graded factorial algebras of dimension two. (English summary) **99d:13025**
Neusel, Mara D. (*with* Smith, Larry) The Lasker-Noether theorem for $\mathscr{P}^*$-invariant ideals. (English summary) **99c:13007**
Peeva, Irena V. (*with* Reiner, Victor; Sturmfels, Bernd) How to shell a monoid. **99d:13020**
Petzl, Henrike (*with* Sharp, Rodney Y.) Comparison of graded and ungraded Cousin complexes. (English summary) **99i:13029**
Popescu, Dorin *see* **Herzog, Jürgen, 99k:13021**
Reiner, Victor *see* **Peeva, Irena V.; et al., 99d:13020**
Sharp, Rodney Y. *see* **Petzl, Henrike, 99i:13029**
Smith, Larry *see* **Neusel, Mara D., 99c:13007**
Sturmfels, Bernd *see* **Peeva, Irena V.; et al., 99d:13020**
Vasconcelos, Wolmer V. Cohomological degrees of graded modules. **99j:13012**

13A05 Divisibility

Ağargün, A. G. (*with* Fletcher, C. R.) Unique factorisation for commutative rings without identity. (English summary) **99c:13001**
Anderson, D. D. (*with* Chapman, Scott T.; Kwak, Dong Je) Integral domains with highly nonunique factorization. (English summary) **99b:13002**
Anderson, David F. (*with* Park, Jeanam; Kim, Gi-Ik; Oh, Heung-Joon) Splitting multiplicative sets and elasticity. **99c:13002**
Chapman, Scott T. *see* **Anderson, D. D.; et al., 99b:13002**
Fletcher, C. R. *see* **Ağargün, A. G., 99c:13001**
Kim, Gi-Ik *see* **Anderson, David F.; et al., 99c:13002**
Kwak, Dong Je *see* **Anderson, D. D.; et al., 99b:13002**
Oh, Heung-Joon *see* **Anderson, David F.; et al., 99c:13002**
Park, Jeanam *see* **Anderson, David F.; et al., 99c:13002**

Items with secondary classifications in 13A05

Chapman, Scott T. (*with* Smith, William W.) Generalized sets of lengths. (English summary) **99i:13030**
Smith, William W. *see* **Chapman, Scott T., 99i:13030**

13A10 Radical theory

Items with secondary classifications in 13A10

Neuhaus, Rolf Computation of real radicals of polynomial ideals. II. (English summary) **99c:13054**

13A15 Ideals; multiplicative ideal theory

Abalo, Koffi E. (*with* Niango, Donatien N.) Residual division, primary decompostion and filtrations. Application to Dedekind domains. (English summary) **99m:13002**
Améziane Hassani, Souad (*with* Dobbs, David E.; Kabbaj, Salah-Eddine) On the prime spectrum of commutative semigroup rings. (English summary) **99g:13002**
Chang, Gyu Whan *see* **Hwang, Chul Ju, 99i:13001**
Dobbs, David E. *see* **Améziane Hassani, Souad; et al., 99g:13002**
Glaz, Sarah (*with* Vasconcelos, Wolmer V.) The content of Gaussian polynomials. **99c:13003**
Hwang, Chul Ju (*with* Chang, Gyu Whan) Prüfer v-multiplication domains in which each t-ideal is divisorial. (English summary) **99i:13001**
Kabbaj, Salah-Eddine *see* **Améziane Hassani, Souad; et al., 99g:13002**
Liu, Jung-Chen Ratliff-Rush closures and coefficient modules. (English summary) **99b:13003**
Matsuda, Ryûki Kronecker function rings of semistar-operations on rings. (English summary) **99m:13003**
— Note on overrings without a specified element. **99i:13002**
Naude, Cornelia Asymptotic primes and sequences over a module. **99m:13004**
Niango, Donatien N. *see* **Abalo, Koffi E., 99m:13002**
Oda, Susumu On reductions of finitely generated ideals in integral domains. **99k:13001**
Vasconcelos, Wolmer V. *see* **Glaz, Sarah, 99c:13003**

Items with secondary classifications in 13A15

Améziane, S. (*with* Costa, Douglas L.; Kabbaj, Salah-Eddine; Zarzuela Armengou, Santiago) On the spectrum of the group ring. (English summary) **99k:13013**
Anderson, D. D. (*with* Kang, Byung Gyun) Formally integrally closed domains and the rings $R((X))$ and $R\{\{X\}\}$. (English summary) **99a:13012**
Corso, Alberto (*with* Heinzer, William J.; Huneke, Craig) A generalized Dedekind-Mertens lemma and its converse. (English summary) **99b:13012**

Costa, Douglas L. *see* **Améziane, S.; et al., 99k:13013**
Dobbs, David E. Prime ideals surviving in complete integral closures. (English summary) **99e:13010**
Faith, Carl Commutative rings with acc on irreducible ideals. (English summary) **99k:13026**
Gebru, Habte Some remarks on Krull's conjecture regarding almost integral elements. **99j:13007**
Heinzer, William J. (*with* Huckaba, James A.; Papick, Ira J.) m-canonical ideals in integral domains. (English summary) **99h:13024**
— *see also* **Corso, Alberto; et al., 99b:13012**
Huckaba, James A. *see* **Heinzer, William J.; et al., 99h:13024**
Huneke, Craig (*with* Ribbe, Jürgen) Symbolic squares in regular local rings. (English summary) **99j:13018**
— *see also* **Corso, Alberto; et al., 99b:13012**
Jayaram, C. (*with* Johnson, E. W.) s-prime elements in multiplicative lattices. (English summary) **99d:06013**
— (*with* Johnson, E. W.) Dedekind lattices. (English summary) **99b:06015**
Johnson, E. W. *see* **Jayaram, C., 99b:06015** *and* **99d:06013**
Kabbaj, Salah-Eddine *see* **Améziane, S.; et al., 99k:13013**
Kang, Byung Gyun *see* **Anderson, D. D., 99a:13012**
McCasland, R. L. *see* **Wang, Fang Gui, 99m:13044**
Ogoma, Tetsushi On a problem of Nagata related to Zariski's problem. **99k:13010**
Papick, Ira J. *see* **Heinzer, William J.; et al., 99h:13024**
Ribbe, Jürgen *see* **Huneke, Craig, 99j:13018**
Sharp, Rodney Y. Linear growth of primary decompositions of integral closures. **99g:13008**
Wang, Fang Gui (*with* McCasland, R. L.) On strong Mori domains. (English summary) **99m:13044**
Zarzuela Armengou, Santiago *see* **Améziane, S.; et al., 99k:13013**
Zöschinger, Helmut Über koassoziierte Primideale. II. [On co-associated prime ideals. II] **99c:13015**

13A18 Valuations and their generalizations

Kim, Mee-Kyoung Note on birational extensions in D-dimension. (English summary) **99k:13001**
Knebusch, Manfred On valuation spectra. (*see* **99i:00035**)
Nobile, Augusto A minimality property of Rees valuations. **99k:13002**
Park, Joong Soo A note on the valuation.

Items with secondary classifications in 13A18

Boulagouaz, M'hammed Une généralisation du lemme de Hensel. (French summary) [A generalization of Hensel's lemma] **99i:13034**
Khanduja, Sudesh K. On Krasner's constant. (English summary) **99m:12012**
Teissier, Bernard Three facts of valuation theory. **99k:12012**

13A20 Brauer groups [see also 12Gxx, 16H05]

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Chi, Wen-Chen (*with* Li, Anly) Groups of continuous characters and Brauer groups. (English summary) **99j:11140**
Choi, Eunmi (*with* Lee, Heisook) Projective Schur algebras over a field of positive characteristic. (English summary) **99d:16019**
Guletskiĭ, V. I. (*with* Margolin, G. L.; Yanchevskiĭ, V. I.) Representation of 2-torsion in Brauer groups of curves by quaternion algebras. (Russian. English and Russian summaries) **99k:14046**
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13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics

Conca, Aldo (*with* Herzog, Jürgen; Ngô Viêt Trung; Valla, Giuseppe) Diagonal subalgebras of bigraded algebras and embeddings of blow-ups of projective spaces. (English summary) **99d:13001**
Duong Quoc Viet On Cohen-Macaulayness and Gorensteinness of Rees algebras of integrally closed filtrations of height two equimultiple ideals. **99m:13005**
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Huckaba, Sam On associated graded rings having almost maximal depth. (English summary) **99d:13002**
Hyry, Eero The diagonal subring and the Cohen-Macaulay property of a multigraded ring. (English summary) **99i:13005**
Johnson, Mark Ray (*with* Ulrich, Bernd) Serre's condition R_k for associated graded rings. **99m:13006**
Kawasaki, Takesi On arithmetic Macaulayfication of certain local rings. (English summary) **99m:13007**
Lavila-Vidal, Olga On the Cohen-Macaulay property of diagonal subalgebras of the Rees algebra. (English summary) **99i:13006**
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Machado, Paulo F. The initial algebra of maximal minors of a generalized Hankel matrix. (English summary) **99m:13008**
Molinelli, S. (*with* Patil, D. P.; Tamone, G.) On the Cohen-Macaulayness of the associated graded ring of certain monomial curves. (English summary) **99g:13003**
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Simis, Aron (*with* Vasconcelos, Wolmer V.; Villarreal, Rafael H.) The integral closure of subrings associated to graphs. (English summary) **99c:13004**
— (*with* Ngô Viêt Trung; Valla, Giuseppe) The diagonal subalgebra of a blow-up algebra. (English summary) **99b:13004**
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Valla, Giuseppe *see* **Simis, Aron; et al., 99b:13004** *and* **Conca, Aldo; et al., 99d:13001**
Vasconcelos, Wolmer V. *see* **Simis, Aron; et al., 99c:13004**
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Barile, Margherita (*with* Morales, Marcel) On certain algebras of reduction number one. **99f:13023**
Bruns, Winfried (*with* Conca, Aldo) KRS and powers of determinantal ideals. (English summary) **99e:13017**
Conca, Aldo Straightening law and powers of determinantal ideals of Hankel matrices. **99i:13020**
— *see also* **Bruns, Winfried, 99e:13017**
Corso, Alberto (*with* Polini, Claudia; Vaz Pinto, Maria) Sally modules and associated graded rings. **99d:13027**
Cutkosky, Steven Dale (*with* Herzog, Jürgen) Cohen-Macaulay coordinate rings of blowup schemes. (English summary) **99d:13028**
Herzog, Jürgen (*with* Kamoi, Yuji) Taylor complexes for Koszul boundaries. (English summary) **99f:13014**
— *see also* **Cutkosky, Steven Dale, 99d:13028**
Kamoi, Yuji *see* **Herzog, Jürgen, 99f:13014**
Korb, Thomas (*with* Nakamura, Yukio[1]) On the Cohen-Macaulayness of multi-Rees algebras and Rees algebras of powers of ideals. **99c:13024**
Manaresi, Mirella *see* **Achilles, Rüdiger, 99a:14005**
Morales, Marcel *see* **Barile, Margherita, 99f:13023**
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Polini, Claudia (*with* Ulrich, Bernd) Linkage and reduction numbers. **99g:13017**
— *see also* **Corso, Alberto; et al., 99d:13027**
Robbiano, Lorenzo (*with* Valla, Giuseppe) Hilbert-Poincaré series of bigraded algebras. (Italian summary) **99j:13011**
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13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [see also 13Mxx]

Aberbach, Ian (*with* Katzman, Mordechai; MacCrimmon, Brian) Weak F-regularity deforms in Q-Gorenstein rings. **99d:13003**
Chiang, Li (*with* Hung, Yu Ching) On Hilbert-Kunz function and representation ring. (English summary) **99k:13004**
Huneke, Craig Tight closure, parameter ideals, and geometry. **99j:13001**
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Katzman, Mordechai The complexity of Frobenius powers of ideals. **99e:13003**
— *see also* **Aberbach, Ian; et al., 99d:13003**
Lyubeznik, Gennady F-modules: applications to local cohomology and D-modules in characteristic $p > 0$. **99c:13005**
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McDermott, Moira A. Strongly bounded rings. **99c:13006**
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— Hilbert-Kunz functions in a family: line-S_4 quartics. **99k:13006**

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Neusel, Mara D. (*with* Smith, Larry) The Lasker-Noether theorem for $\mathscr{P}^*$-invariant ideals. (English summary) **99c:13007**
Regnath, Hanne (*with* Seibert, Gerhard) Frobenius functors and invariant factors. (English summary) **99e:13004**
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Singh, Anurag K. Tight closure in non-equidimensional rings. **99j:13002**
— Failure of F-purity and F-regularity in certain rings of invariants. **99g:13004**
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Blanco, Amalia (*with* Majadas Soto, Javier) Sur les morphismes d'intersection complète en caractéristique p. [On complete intersection morphisms in characteristic p] **99i:13023**
Bøgvad, Rikard Splitting of the direct image of sheaves under the Frobenius. (English summary) **99h:14051**
Brückmann, Peter (*with* Müller, Dirk) Birational invariants in the case of prime characteristic. (English summary) **99f:14023**
Bruns, Winfried (*with* Conca, Aldo) F-rationality of determinantal rings and their Rees rings. **99g:13016**
Chiang, Li (*with* Hung, Yu Ching) On Hilbert-Kunz functions of some hypersurfaces. **99c:13037**
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McDermott, Moira A. Regular closure. (English summary) **99j:13004**
Müller, Dirk *see* **Brückmann, Peter**, **99f:14023**
Smith, Karen E. Vanishing, singularities and effective bounds via prime characteristic local algebra. **99a:14026**

13A50 Invariant theory [see also 14D25]

Ahmad, Hamza (*with* Hajja, Mowaffaq; Kang, Ming-chang) Negligibility of projective linear automorphisms. (English summary) **99c:13008**
Anghel, Nicolae SL_2-polynomial invariance. **99k:13007**
Campbell, H. E. A. (*with* Hughes, I. P.) Rings of invariants of certain p-groups over the field $\mathbf{F}_p$. (English summary) **99m:13009**
Choi, N. S. *see* **Keum, J. H.**, **99f:13005**
Decker, Wolfram (*with* Heydtmann, Agnes Eileen; Schreyer, Frank-Olaf) Generating a Noetherian normalization of the invariant ring of a finite group. (English summary) **99d:13004**
Dixmier, Jacques Solution négative du problème des invariants, d'après Nagata. [Negative solution of the problem of invariants, after Nagata] (*see* **99f:00037**)
Forger, Michael Invariant polynomials and Molien functions. (English summary) **99g:13005**
Göbel, Manfred On the reduction of G-invariant polynomials for arbitrary permutation groups G. (English summary) **99e:13005**
— A constructive description of SAGBI bases for polynomial invariants of permutation groups. (English summary) **99f:13002**
— (*with* Walter, Jochen) Bases for polynomial invariants of conjugates of permutation groups. Appendix to: "Computing bases for rings of permutation-invariant polynomials" [J. Symbolic Comput. **19** (1995), no. 4, 285–291; MR 96f:13006] by Göbel. **99b:13005**
Grosshans, Frank D. ★ Algebraic homogeneous spaces and invariant theory. **99b:13005**
Hajja, Mowaffaq *see* **Ahmad, Hamza; et al.**, **99c:13008**
Henn, Hans-Werner A variant of the proof of the Landweber Stong conjecture. **99e:13006**
Heydtmann, Agnes Eileen *see* **Decker, Wolfram; et al.**, **99d:13004**
Hughes, I. P. *see* **Campbell, H. E. A.**, **99m:13009**
Iltyakov, A. V. Laplace operator and polynomial invariants. (English summary) **99j:13003**
Kang, Ming-chang *see* **Ahmad, Hamza; et al.**, **99c:13008**
Kechagias, Nondas E. The transfer between rings of modular invariants of subgroups of $GL(n, p)$. (English summary) **99f:13003**
Kemper, Gregor Lower degree bounds for modular invariants and a question of I. Hughes. (English summary) **99f:13004**
— (*with* Malle, Gunter) Invariant rings and fields of finite groups. (English summary) **99m:13010**
Keum, J. H. (*with* Choi, N. S.) The rings of invariants of finite abelian subgroups of $GL(2, \mathbf{C})$ of order ≤ 18. (English summary) **99f:13005**
Malle, Gunter *see* **Kemper, Gregor**, **99m:13010**
Neusel, Mara D. (*with* Smith, Larry) Polynomial invariants of groups associated to configurations of hyperplanes over finite fields. (English summary) **99c:13009**
Panyushev, D. I. On deformation method in invariant theory. (English and French summaries) **99a:13001**
Schreyer, Frank-Olaf *see* **Decker, Wolfram; et al.**, **99d:13004**
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— The ring of invariants of $O(3, \mathbf{F}_q)$. (English summary) **99m:13012**
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Steinberg, Robert Nagata's example. **99h:13004**
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Dwyer, William G. (*with* Wilkerson, C. W.) Kähler differentials, the T-functor, and a theorem of Steinberg. (English summary) **99e:55027**
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Singh, Anurag K. Failure of F-purity and F-regularity in certain rings of invariants. **99g:13004**
Umeda, Tôru The Capelli identities, a century after. **99c:17021**
Wehlau, David L. *see* **Schwarz, Gerald W.**, **99i:14055**
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13A99 None of the above, but in this section

Al-Khamees, Yousif (*with* Mordeson, John N.) Local examination of fuzzy intersection equations. (English summary) **99d:13005**
Bhatwadekar, S. M. (*with* Dumaldar, Mahesh N.; Sharma, Pramod K.) Some non-chromatic rings. (English summary) **99a:13002**
Biswas, B. K. *see* **Dutta, Tapan Kumar[1]**
Chick, Helen L. (*with* Gardner, B. J.) Commutative quasiregular rings with isomorphic additive and circle composition groups. II. Rational algebras. (English summary) **99a:13003**
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Dumaldar, Mahesh N. (*with* Sharma, Pramod K.) Comments over "some non-chromatic rings". (English summary) **99k:13009**
— *see also* **Bhatwadekar, S. M.; et al.**, **99a:13002**
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Gardner, B. J. *see* **Chick, Helen L.**, **99a:13003**
Hara, Nobuo A characterization of rational singularities in terms of injectivity of Frobenius maps. (English summary) **99h:13005**
Katsylo, Pavel (*with* Mikhailov, Dmitry) Ternary quartics and 3-dimensional commutative algebras. (English summary) **99e:13007**
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Mavlyutov, A. R. Nilpotency of degree 3 that is stable in some class of algebras. (Russian. Russian summary) **99i:13008**
McDermott, Moira A. Regular closure. (English summary) **99j:13004**
Mehta, V. B. (*with* Srinivas, Vasudevan) A characterization of rational singularities. **99e:13009**
Mikhailov, Dmitry *see* **Katsylo, Pavel**, **99e:13007**
Monnier, Jean-Philippe Anneaux d'holomorphie et Positivstellensatz archimédien. (English summary) [Holomorphy rings and Archimedean Positivstellensatz] **99m:13013**
Mordeson, John N. *see* **Al-Khamees, Yousif**, **99d:13005** *and* **Lee, Kyoung Hee**, **99e:13008**
Sharma, Pramod K. *see* **Bhatwadekar, S. M.; et al.**, **99a:13002** *and* **Dumaldar, Mahesh N.**, **99k:13009**
Srinivas, Vasudevan *see* **Mehta, V. B.**, **99e:13009**
Yassemi, Siamak Weakly associated primes under change of rings. **99f:13006**
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Anderson, D. D. (*with* Camillo, Victor) Armendariz rings and Gaussian rings. (English summary) **99e:16041**
Bruck, Jehoshua Reflections on: "Representations of sets of Boolean functions by commutative rings" [Comput. Complexity **6** (1996/1997), no. 3, 199–208; MR 99c:68101] by R. Smolensky. (English summary) **99c:68102**
Camillo, Victor *see* **Anderson, D. D.**, **99e:16041**
Nison, Laurence La catégorie de Zariski des anneaux rationnels. (English and French summaries) [The Zariski category of rational rings] **99c:14001**
Okoh, Frank (*with* Zorzitto, F.) A family of commutative endomorphism algebras. (English summary) **99d:16034**
Saleh, Mohammad A. (*with* Yousef, Hasan; Abu Hlail, J.) The number of homomorphisms from $\mathbf{Z}_{m_1} \times \mathbf{Z}_{m_2} \times \cdots \times \mathbf{Z}_{m_r}$ into $\mathbf{Z}_{k_1} \times \mathbf{Z}_{k_2} \times \cdots \times \mathbf{Z}_{k_s}$. (English and Arabic summaries)
Smolensky, Roman Representations of sets of Boolean functions by commutative rings. **99c:68101**
— *see also* **Bruck, Jehoshua**, **99c:68102**
Yousef, Hasan *see* **Saleh, Mohammad A.; et al.**
Zorzitto, F. *see* **Okoh, Frank**, **99d:16034**

13Bxx Ring extensions and related topics

13B02 Extension theory

Gilmer, Robert (*with* Heinzer, William J.) On the embedding of a commutative ring in a local ring. (English summary) **99i:13009**
Heinzer, William J. *see* **Gilmer, Robert**, **99i:13009**
McKenzie, Thomas The separable closure of a local ring. **99g:13006**

Oda, Susumu (*with* Yoshida, Ken-ichi[1]) Anti-integral elements and coefficients of their minimal polynomials. **99j:13005**
— (*with* Yoshida, Ken-ichi[1]) On comparisons of subrings of type $R[a\alpha] \cap R[(a\alpha)^{-1}]$. **99b:13006**
— (*with* Yoshida, Ken-ichi[1]) A linear generator of an ultra-primitive extension $R[\alpha]$. (English summary) **99c:13010**
— (*with* Yoshida, Ken-ichi[1]) On two-generators of simple algebraic extensions of Noetherian domains. (English summary) **99h:13007**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu, 99b:13006; 99c:13010; 99h:13007** *and* **99j:13005**

Items with secondary classifications in 13B02

Reich, Ludwig *see* **Unger, Josef, 99k:39068**
Unger, Josef (*with* Reich, Ludwig) ★ Derivationen höherer Ordnung als Lösungen von Funktionalgleichungen. (German) [Derivations of higher order as solutions of functional equations] **99k:39068**

13B05 Galois theory (commutative rings)

Zheng, Zhou Shun *see* **Zhou, Kai Shan**
Zhou, Kai Shan (*with* Zheng, Zhou Shun) Strongly separable extensions and Galois extensions of commutative rings. (Chinese. English and Chinese summaries)

Items with secondary classifications in 13B05

McKenzie, Thomas The separable closure of a local ring. **99g:13006**

13B10 Morphisms and derivations

Aoki, Hisayo (*with* Miyanishi, Masayoshi) Finitely generated algebras associated with rational vector fields. **99b:13007**
Daigle, Daniel (*with* Freudenburg, Gene) Locally nilpotent derivations over a UFD and an application to rank two locally nilpotent derivations of $k[X_1, \cdots, X_n]$. (English summary) **99c:13011**
— Homogeneous locally nilpotent derivations of $k[X, Y, Z]$. (English summary) **99f:13007**
Douglass, J. Matthew Toral arrangements and hyperplane arrangements. (English summary) **99j:13006**
Drensky, Vesselin (*with* Yu, Jie-Tai) Exponential automorphisms of polynomial algebras. **99m:13014**
Freudenburg, Gene Local slice constructions in $k[X, Y, Z]$. **99i:13010**
— *see also* **Daigle, Daniel, 99c:13011**
Furuya, Mamoru (*with* Niitsuma, Hiroshi) On the differential submodules of modules. **99h:13008**
Goldsmith, Brendan (*with* Zanardo, Paolo) Endomorphism rings and automorphism groups of separable torsion-free modules over valuation domains. **99i:13011**
Kunz, Ernst Differentially closed prime ideals. (English summary) **99i:13012**
Miyanishi, Masayoshi *see* **Aoki, Hisayo, 99b:13007**
Niitsuma, Hiroshi *see* **Furuya, Mamoru, 99h:13008**
Onoda, Nobuharu Remarks on kernels of derivations defined on $R[X]/I$.
Yu, Jie-Tai Complementary conjecture revisited. (English summary) **99d:13006**
— *see also* **Drensky, Vesselin, 99m:13014**
Zanardo, Paolo *see* **Goldsmith, Brendan, 99i:13011**

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Avramov, Luchezar L. (*with* Foxby, Hans-Bjørn) Cohen-Macaulay properties of ring homomorphisms. (English summary) **99c:13043**
Crupi, Marilena (*with* Restuccia, Gaetana) Integrable derivations and formal groups in unequal characteristic. (English summary) **99m:14082**
van den Essen, Arno Polynomial automorphisms and the Jacobian conjecture. (English and French summaries) **99b:14015**
Foxby, Hans-Bjørn *see* **Avramov, Luchezar L., 99c:13043**
Furter, Jean-Philippe On the degree of the inverse of an automorphism of the affine space. (English summary) **99g:14015**
Ossowski, Piotr A counterexample to a conjecture of Bass, Connell and Wright. **99h:14013**
Peretz, Ronen The geometry of the asymptotics of polynomial maps. (English summary) **99f:14022**
Quarez, Ronan The Artin conjecture for Q-algebras. (English summary) **99f:13010**
Restuccia, Gaetana *see* **Crupi, Marilena, 99m:14082**
Robinson, Donald W. The image of the adjoint mapping. (English summary) **99e:15005**
Zhou, Caijun Higher derivations and local cohomology modules. **99c:13038**

13B15 Ramification theory

Griffith, Phillip A relative filtration index and fibers of normal primes in extensions of finite type. (English summary) **99f:13008**
Kantorovitz, Miriam Ruth A generalization of the Auslander-Nagata purity theorem. (English summary) **99b:13008**
Oesterlé, Joseph (*with* Pharamond dit d'Costa, Layla) Fermetures intégrales des $\overline{\mathbf{Z}}$-algèbres. (English summary) [Integral closures of $\overline{\mathbf{Z}}$-algebras] **99b:13009**
Pharamond dit d'Costa, Layla *see* **Oesterlé, Joseph, 99b:13009**

Items with secondary classifications in 13B15

Adolphson, Alan (*with* Sperber, Steven) A remark on local cohomology. (English summary) **99g:13027**
Chung, Sang Cho *see* **Song, Yeong Moo, 99g:13010**
Song, Yeong Moo (*with* Chung, Sang Cho) Inverse polynomials, ramification indices and injective envelopes of simple modules over polynomial rings. **99g:13010**
Sperber, Steven *see* **Adolphson, Alan, 99g:13027**

13B21 Integral dependence

Items with secondary classifications in 13B21

Dobbs, David E. Prime ideals surviving in complete integral closures. (English summary) **99e:13010**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) Anti-integral elements and coefficients of their minimal polynomials. **99j:13005**
— (*with* Yoshida, Ken-ichi[1]) On two-generators of simple algebraic extensions of Noetherian domains. (English summary) **99h:13007**
Oesterlé, Joseph (*with* Pharamond dit d'Costa, Layla) Fermetures intégrales des $\overline{\mathbf{Z}}$-algèbres. (English summary) [Integral closures of $\overline{\mathbf{Z}}$-algebras] **99b:13009**
Pharamond dit d'Costa, Layla *see* **Oesterlé, Joseph, 99b:13009**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu, 99h:13007** *and* **99j:13005**

13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)

Cimen, Nuri One-dimensional rings of finite Cohen-Macaulay type. (English summary) **99g:13007**
Corso, Alberto (*with* Huneke, Craig; Vasconcelos, Wolmer V.) On the integral closure of ideals. (English summary) **99b:13010**
Gebru, Habte Some remarks on Krull's conjecture regarding almost integral elements. **99j:13007**
Huneke, Craig *see* **Corso, Alberto; et al., 99b:13010**
de Jong, Theo An algorithm for computing the integral closure. (English summary) **99d:13007**
Ogoma, Tetsushi On a problem of Nagata related to Zariski's problem. **99k:13010**
Oneto, Anna (*with* Zatini, E.) On the value set of modules. **99i:13013**
Picavet, Gabriel Anodality. (English summary) **99b:13011**
Samuel, Pierre Sections hyperplanes des variétés normales (d'après A. Seidenberg et W. Krull). [Hyperplane sections of normal varieties (after A. Seidenberg and W. Krull)] (*see* **99f:00033**)
Sharp, Rodney Y. Linear growth of primary decompositions of integral closures. **99g:13008**
Tıraş, Yücel Integral closure of an ideal relative to a module and Δ-closure. (English and Turkish summaries) **99a:13004**
Vasconcelos, Wolmer V. *see* **Corso, Alberto; et al., 99b:13010**
Yoshimura, Hiroshi Rings whose invertible ideals correspond to finitely generated overmodules. **99c:13012**
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Hyry, Eero (*with* Villamayor U., Orlando E.) A Briançon-Skoda theorem for isolated singularities. (English summary) **99f:13024**
Katz, Daniel On the existence of maximal Cohen-Macaulay modules over pth root extensions. (English summary) **99m:13018**
Liu, Jung-Chen Ratliff-Rush closures and coefficient modules. (English summary) **99b:13003**
McDermott, Moira A. Strongly bounded rings. **99c:13006**
Onoda, Nobuharu A theorem on subrings of affine rings and its application. **99c:13039**
Simis, Aron (*with* Vasconcelos, Wolmer V.; Villarreal, Rafael H.) The integral closure of subrings associated to graphs. (English summary) **99c:13004**
Vasconcelos, Wolmer V. *see* **Simis, Aron; et al., 99c:13004**
Villamayor U., Orlando E. *see* **Hyry, Eero, 99f:13024**
Villarreal, Rafael H. *see* **Simis, Aron; et al., 99c:13004**

13B24 Going up; going down; going between

Dobbs, David E. Prime ideals surviving in complete integral closures. (English summary) **99e:13010**

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Ayache, Ahmed Quelques remarques sur les conditions de chaînes. (French summary) [Some remarks about chain conditions] **99m:13020**

13B25 Polynomials over commutative rings

Aichinger, Erhard Local polynomial functions on the integers. (Italian summary) **99f:13009**
Bărbăcioru, Cătălin Integer-valued polynomials and full subsets.
Cahen, Paul-Jean (*with* Haouat, Youssef) Spectre des anneaux de polynômes à valeurs entières à plusieurs indéterminées. [Spectrum of rings of integer-valued polynomials with several indeterminates] **99c:13013**
Chabert, Jean-Luc Sur les générateurs du groupe de Picard des anneaux de polynômes à valeurs entières. (French summary) [On the generators of the Picard group of rings of integer-valued polynomials] **99a:13005**
— (*with* Chapman, Scott T.; Smith, William W.) A basis for the ring of polynomials integer-valued on prime numbers. **99d:13008**
— (*with* Chapman, Scott T.; Smith, William W.) The Skolem property in rings of integer-valued polynomials. (English summary) **99a:13006**
Chapman, Scott T. *see* **Chabert, Jean-Luc; et al., 99a:13006** *and* **99d:13008**
Chen, Huan Yin LUV rings and modules over their group rings. (Chinese. English and Chinese summaries) **99m:13015**
Corso, Alberto (*with* Heinzer, William J.; Huneke, Craig) A generalized Dedekind-Mertens lemma and its converse. (English summary) **99b:13012**
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Sheng, Zhong Ping Existence of nonconstant common divisors for a system of polynomials. (Chinese. English and Chinese summaries)

Smith, William W. *see* **Chabert, Jean-Luc; et al., 99a:13006** *and* **99d:13008**

Items with secondary classifications in 13B25

Drensky, Vesselin (*with* Yu, Jie-Tai) Exponential automorphisms of polynomial algebras. **99m:13014**
van den Essen, Arno Polynomial automorphisms and the Jacobian conjecture. (English and French summaries) **99b:14015**
Glaz, Sarah (*with* Vasconcelos, Wolmer V.) The content of Gaussian polynomials. **99c:13003**
Ivanenko, Nazar Some classes of linearizable polynomial maps. (English summary) **99a:14023**
Laohakosol, Vichian Bases for integer-valued polynomials in a Galois field. **99m:11145**
Lauder, Alan G. B. Polynomials with odd orthogonal multiplicity. (English summary) **99h:11020**
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Simis, Aron (*with* Vasconcelos, Wolmer V.; Villarreal, Rafael H.) The integral closure of subrings associated to graphs. (English summary) **99c:13004**
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13B30 Quotients and localization

Heinzer, William J. (*with* Lantz, David; Wiegand, Roger) The residue fields of a zero-dimensional ring. (English summary) **99g:13009**
Khashyarmanesh, K. (*with* Salarian, Sh.; Zakeri, H.) On the flat dimension of certain modules of generalized fractions. (English summary) **99d:13009**
Lantz, David *see* **Heinzer, William J.; et al., 99g:13009**
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Zakeri, H. *see* **Khashyarmanesh, K.; et al., 99d:13009**

Items with secondary classifications in 13B30

Anderson, David F. (*with* Park, Jeanam; Kim, Gi-Ik; Oh, Heung-Joon) Splitting multiplicative sets and elasticity. **99c:13002**
Katzman, Mordechai The complexity of Frobenius powers of ideals. **99e:13003**
Kim, Gi-Ik *see* **Anderson, David F.; et al., 99c:13002**
McDermott, Moira A. Strongly bounded rings. **99c:13006**
Ogoma, Tetsushi On a problem of Nagata related to Zariski's problem. **99k:13010**
Oh, Heung-Joon *see* **Anderson, David F.; et al., 99c:13002**
Park, Jeanam *see* **Anderson, David F.; et al., 99c:13002**
Zanardo, Paolo Relations between localizations and I-adic completions in commutative domains. **99e:13029**

13B35 Completion [see also 13J10]

Items with secondary classifications in 13B35

Loepp, S. Excellent rings with local generic formal fibers. (English summary) **99a:13013**

13B40 Étale extensions and Henselization; Artin approximation [see also 13J15, 14B12]

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Spivakovsky, Mark A new proof of D. Popescu's theorem on smoothing of ring homomorphisms. (English summary) **99j:13008**

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Gajda, W. *see* **Banaszak, G.; et al., 99h:19005**
Griffith, Phillip A relative filtration index and fibers of normal primes in extensions of finite type. (English summary) **99f:13008**
— On the splitting of big Cohen-Macaulay modules. (English summary) **99i:13017**
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McKenzie, Thomas Weakly Henselian rings. **99g:13034**

13B99 None of the above, but in this section

Visweswaran, S. When is $(K, K[y_1, \cdots, y_t])$ an N-ring pair? (English summary) **99e:13011**

Items with secondary classifications in 13B99

Hager, Anthony W. (*with* Martinez, Jorge[2]) Pushout-invariant extensions and monoreflections. (English summary) **99e:18002**
Martinez, Jorge[2] *see* **Hager, Anthony W., 99e:18002**

13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

Ramazani Gornami, M. A. Elementary topics on modules. (English summary) **99c:13014**
Salce, Luigi (*with* Zanardo, Paolo) Presentations of modules over local domains. **99e:13012**
Zanardo, Paolo *see* **Salce, Luigi, 99e:13012**
Zöschinger, Helmut Über koassoziierte Primideale. II. [On co-associated prime ideals. II] **99c:13015**

Items with secondary classifications in 13C05

Corner, A. L. S. (*with* Goldsmith, Brendan) Isomorphic automorphism groups of torsion-free p-adic modules. **99g:13012**
Goldsmith, Brendan *see* **Corner, A. L. S., 99g:13012**

13C10 Projective and free modules and ideals [see also 18G05, 19A13]

Bhatwadekar, S. M. (*with* Sridharan, Raja) Projective generation of curves in polynomial extensions of an affine domain and a question of Nori. **99c:13016**
Chen, Huan Yin (*with* Hao, Zhi Feng) Local characterizations of projective modules. (Chinese. English and Chinese summaries)
— Polynomial rings over non-Noetherian power series rings. (English summary) **99b:13013**
Generalov, A. I. (*with* Zheludev, M. V.) Compatible decompositions of modules over Dedekind prime rings. (Russian. Russian summary) **99b:13014**
Goldsmith, Brendan (*with* Pabst, Simone) Describing ideals of endomorphism rings. **99c:13017**
Hao, Zhi Feng *see* **Chen, Huan Yin**
Jukl, Marek A remark on spaces over a special local ring. (English summary)
Kakakhail, Haniya Homomorphisms of progenerator modules and direct limits. (English and Arabic summaries) **99k:13011**
Kider, Jihad R. *see* **Naoum, Adil G., 99b:13015**
Mandal, Satya (*with* Murthy, M. Pavaman) Ideals as sections of projective modules. **99d:13010**
— Complete intersection K-theory and Chern classes. **99c:13018**
Murthy, M. Pavaman *see* **Mandal, Satya, 99d:13010**
Naoum, Adil G. (*with* Kider, Jihad R.) On the module of homomorphisms into projective modules and multiplication modules. **99b:13015**
Pabst, Simone *see* **Goldsmith, Brendan, 99c:13017**
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— *see also* **Bhatwadekar, S. M., 99c:13016**
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Items with secondary classifications in 13C10

Bhatwadekar, S. M. (*with* Sridharan, Raja) Projective generation of curves in polynomial extensions of an affine domain. II. (English summary) **99j:13016**
Kryuchkov, N. I. Injective and projective objects in the category of locally compact modules over the ring of integers of a global field. (Russian. Russian summary) **99f:13025**
Kvirikashvili, T. G. The fundamental theorem of affine geometry over rings. (Russian. English and Georgian summaries)
Liu, Zhong Kui PF-rings of generalised power series. (English summary) **99d:13026**
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13C11 Injective and flat modules and ideals [see also 18G05]

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Piras, Francesco Some remarks on the inverse systems of polynomial modules. (English summary) **99c:13020**
Song, Yeong Moo (*with* Chung, Sang Cho) Inverse polynomials, ramification indices and injective envelopes of simple modules over polynomial rings. **99g:13010**

Items with secondary classifications in 13C11

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Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Coliftings and Gorenstein injective modules. **99g:13031**
Hermida-Alonso, J. A. *see* **Carriegos, M.; et al., 99f:93025**
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Olberding, Bruce Composition series of modules over Prüfer domains. (English summary) **99j:13014**
Picavet, Gabriel Deux remarques sur la semi-normalité. [Two remarks concerning seminormality] **99m:13043**
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Simon, Anne-Marie Intersection dimension and canonical modules. **99e:13016**
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13C12 Torsion modules and ideals

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Restuccia, Gaetana (*with* Ionescu, Cristodor) q-torsion freeness of symmetric powers. (English summary) **99c:13021**

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Bijan-Zadeh, M. H. (*with* Payrovi, Sh.) A generalization of Cohen-Macaulay modules by torsion theory. (English summary) **99g:13015**
Carbonne, P. Sur les différentielles de torsion. [On torsion differentials] **99c:13045**
Hermida-Alonso, J. A. (*with* Martín Yagüez, M. C.) On the application of the factorization ideals associated to a finite free resolution. (English summary) **99e:13019**
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13C13 Other special types

Aramova, Annetta (*with* Herzog, Jürgen; Hibi, Takayuki) Weakly stable ideals. **99b:13016**
Barry, Mamadou (*with* Gueye, C. T.; Sanghare, M.) On commutative FGI-rings. **99g:13011**
Cho, Yong Hwan Radicals of submodules and closed submodules. (English summary)
Corner, A. L. S. (*with* Goldsmith, Brendan) Isomorphic automorphism groups of torsion-free p-adic modules. **99g:13012**
Files, Steve T. (*with* Göbel, Rüdiger) Gauss' theorem for two submodules. **99d:13012**
Fomin, A. A. (*with* Mutzbauer, Otto) Abelian groups with an endomorphism with irreducible minimum polynomial. (English summary) **99c:13022**
Fuchs, László[1] (*with* Lee, Sang Bum[1]) Equivalent presentations of modules over Prüfer domains. (English summary) **99d:13013**
Göbel, Rüdiger (*with* Shelah, Saharon) Indecomposable almost free modules—the local case. (English summary) **99i:13014**
— *see also* **Files, Steve T., 99d:13012**
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Jarisch, Ralf (*with* Mutzbauer, Otto; Toubassi, Elias) Characterizing a class of simply presented modules by relation arrays. (English summary) **99i:13016**
Lee, Sang Bum[1] P-adic decompositions over domains. (English summary) **99j:13009**
— *see also* **Fuchs, László[1], 99d:13013**
McCasland, R. L. (*with* Moore, M. E.; Smith, Patrick F.) Modules with bounded spectra. (English summary) **99g:13013**
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Geramita, Anthony V. (*with* Schenck, Henry K.) Fat points, inverse systems, and piecewise polynomial functions. (English summary) **99d:13019**
Göbel, Rüdiger (*with* Pabst, Simone) Endomorphism algebras over large domains. (English summary) **99b:16046**
Jorgensen, David A. Existence of unliftable modules. (English summary) **99i:13028**
Kider, Jihad R. *see* **Naoum, Adil G., 99b:13015**
Kvirikashvili, T. G. On a generalization of the fundamental theorem of projective geometry. (Russian. English and Georgian summaries)
Leung, Ka Hin (*with* Man, Shing Hing) On commutative Noetherian rings which satisfy the radical formula. (English summary) **99a:13009**
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May, Warren Lee[2] (*with* Zanardo, Paolo) Non-Henselian valuation domains and the Krull-Schmidt property for torsion-free modules. (English summary) **99b:13024**
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Rangaswamy, K. M. A criterion for complete decomposability and Butler modules over valuation domains. **99g:13030**
— *see also* **Monari-Martinez, Elisabetta, 99g:13029**
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13C14 Cohen-Macaulay modules [see also 13H10]

Bijan-Zadeh, M. H. (*with* Payrovi, Sh.) A generalization of Cohen-Macaulay modules by torsion theory. (English summary) **99g:13015**
Elías, Juan Sharp upper bounds for the Betti numbers of Cohen-Macaulay modules. **99e:13013**
Ene, Viviana Cohen-Macaulay modules over rings of type $k[x, y]/(x^t + y^3)$. (English summary) **99b:13018**
— Infinitesimal deformations of modules over $k[x]/(x^t)$. **99c:13023**
Griffith, Phillip On the splitting of big Cohen-Macaulay modules. (English summary) **99i:13017**
Hashimoto, Mitsuyasu Modules over commutative rings that act on groups. (Japanese) **99e:13014**
Kato, Kiriko Cohen-Macaulay approximations from the viewpoint of triangulated categories. **99e:13015**
Katz, Daniel On the existence of maximal Cohen-Macaulay modules over pth root extensions. (English summary) **99m:13018**
Korb, Thomas (*with* Nakamura, Yukio[1]) On the Cohen-Macaulayness of multi-Rees algebras and Rees algebras of powers of ideals. **99c:13024**
Marcelo Vega, Agustín (*with* Muñoz Masqué, Jaime) Descent invariant and the S_n condition. **99h:13009**
Martin, Bernd (*with* Pfister, Gerhard; Popescu, Dorin) Maximal Cohen-Macaulay modules over singularities of type $x^t + y^3$. **99i:13018**
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Popescu, Dorin Special Cohen-Macaulay modules over singularities of type $x^{3r} + y^3$. (English summary) **99m:13019**
— *see also* **Martin, Bernd; et al., 99i:13018**
Wiegand, Roger Local rings of finite Cohen-Macaulay type. (English summary) **99c:13025**
Yoshino, Yuji Auslander's work on Cohen-Macaulay modules and recent development. **99i:13019**

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Berger, Robert W. Kommutative algebra. II. [Commutative algebra. II] **99b:13001**
Bruns, Winfried (*with* Guerrieri, Anna) The Dedekind-Mertens formula and determinantal rings. (English summary) **99f:13013**
Conca, Aldo (*with* Herzog, Jürgen) Ladder determinantal rings have rational singularities. **99c:13028**
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Miyachi, Jun-ichi Cohen-Macaulay approximations and Noetherian algebras. **99h:16030**
Yanagawa, Kohji F_Δ type free resolutions of monomial ideals. (English summary) **99c:13031**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Albu, Toma (*with* Vámos, Peter) Global Krull dimension and global dual Krull dimension of valuation rings. **99k:13012**
Améziane, S. (*with* Costa, Douglas L.; Kabbaj, Salah-Eddine; Zarzuela Armengou, Santiago) On the spectrum of the group ring. (English summary) **99k:13013**
Araya, Tokuji (*with* Yoshino, Yuji) Remarks on a depth formula, a grade inequality and a conjecture of Auslander. (English summary) **99h:13010**
Ayache, Ahmed Quelques remarques sur les conditions de chaînes. (French summary) [Some remarks about chain conditions] **99m:13020**
— *see also* **Cahen, Paul-Jean, 99f:13011**
Cahen, Paul-Jean (*with* Ayache, Ahmed) Radical valuatif et sous-extensions. (French summary) [Valuative radical and subextensions] **99f:13011**
Costa, Douglas L. *see* **Améziane, S.; et al., 99k:13013**
D'Anna, Marco Canonical modules of one-dimensional reduced rings and their associated subgroups. t-sequences. (Italian)
Jorgensen, David A. Complexity and Tor on a complete intersection. (English summary) **99k:13014**
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Simon, Anne-Marie Intersection dimension and canonical modules. **99e:13016**
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Deo, Satya Projective dimension of the spline module of piecewise polynomials over manifolds. **99k:52021**
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Heinzer, William J. (*with* Rotthaus, Christel; Wiegand, Sylvia M.) Building Noetherian domains inside an ideal-adic completion. (English summary) **99m:13035**
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Kabbaj, Salah-Eddine *see* **Améziane Hassani, Souad; et al., 99g:13002**
Marcelo Vega, Agustín (*with* Muñoz Masqué, Jaime) Descent invariant and the S_n condition. **99h:13009**
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Owens, David H. *see* **Wood, Jeffrey James; et al., 99j:93059**
Restuccia, Gaetana (*with* Ionescu, Cristodor) q-torsion freeness of symmetric powers. (English summary) **99c:13021**
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Rotthaus, Christel *see* **Heinzer, William J.; et al., 99m:13035**
Wiegand, Sylvia M. *see* **Heinzer, William J.; et al., 99m:13035**
Wood, Jeffrey James (*with* Rogers, Eric; Owens, David H.) A formal theory of matrix primeness. (English summary) **99j:93059**

13C20 Class groups

Bazzoni, Silvana Idempotents of the class semigroup of a Prüfer domain of finite character. (English summary) **99k:13015**
Mason, A. W. (*with* Odoni, R. W. K.) Ideal class groups of Dedekind domains contained in function fields. (English summary) **99h:13011**
Miller, Claudia Recovering divisor classes via their (T)-adic filtrations. (English summary) **99f:13012**
Odoni, R. W. K. *see* **Mason, A. W., 99h:13011**
Stolin, Alexander On the Picard group of the integer group ring of the cyclic p-group and certain Galois groups. (English summary) **99h:13012**

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Chapman, Scott T. (*with* Thill, William) On a generalisation of a theorem of Zaks and Skula. (English summary) **99g:20098**
— (*with* Smith, William W.) Generalized sets of lengths. (English summary) **99i:13030**
Griffith, Phillip A relative filtration index and fibers of normal primes in extensions of finite type. (English summary) **99f:13008**
Merisi, Piercarlo (*with* Vámos, Peter) On rings whose Morita class is represented by matrix rings. (English summary) **99f:16008**
Smith, William W. *see* **Chapman, Scott T., 99i:13030**
Thill, William *see* **Chapman, Scott T., 99g:20098**
Vámos, Peter *see* **Merisi, Piercarlo, 99f:16008**

13C40 Linkage, complete intersections and determinantal ideals [see also 14M12]

Baetica, C. Rees algebra of ideals generated by Pfaffians. **99c:13026**
Boffi, G. (*with* Bruns, Winfried; Guerrieri, Anna) On the Jacobian ideal of a trilinear form. **99c:13027**
Bresinsky, Henrik (*with* Schenzel, Peter; Stückrad, J.) Quasi-complete intersection ideals of height 2. (English summary) **99d:13014**
Bruns, Winfried (*with* Conca, Aldo) KRS and powers of determinantal ideals. (English summary) **99e:13017**
— (*with* Conca, Aldo) F-rationality of determinantal rings and their Rees rings. **99g:13016**
— (*with* Guerrieri, Anna) The Dedekind-Mertens formula and determinantal rings. (English summary) **99f:13013**
— *see also* **Boffi, G.; et al., 99c:13027**
Conca, Aldo (*with* Herzog, Jürgen) Ladder determinantal rings have rational singularities. **99c:13028**
— Straightening law and powers of determinantal ideals of Hankel matrices. **99i:13020**
— *see also* **Bruns, Winfried, 99e:13017** *and* **99g:13016**
Glassbrenner, Donna (*with* Smith, Karen E.) Sparse systems of parameters for determinantal varieties. **99b:13019**
Guerrieri, Anna *see* **Boffi, G.; et al., 99c:13027** *and* **Bruns, Winfried, 99f:13013**
Herzog, Jürgen *see* **Conca, Aldo, 99c:13028**
Polini, Claudia (*with* Ulrich, Bernd) Linkage and reduction numbers. **99g:13017**
Schenzel, Peter *see* **Bresinsky, Henrik; et al., 99d:13014**
Smith, Karen E. *see* **Glassbrenner, Donna, 99b:13019**
Stückrad, J. *see* **Bresinsky, Henrik; et al., 99d:13014**
Ulrich, Bernd *see* **Polini, Claudia, 99g:13017**
Wang, Wen Ju Universal residual intersection. (English and Chinese summaries)

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Arslan, Feza (*with* Sertöz, A. Sinan) Genus calculations of complete intersections. **99e:14058**
Ballico, Edoardo Codimension 2 subschemes of projective spaces with stable restricted tangent bundle and liaison classes. **99d:14051**
Conca, Aldo (*with* Herzog, Jürgen; Ngô Việt Trung; Valla, Giuseppe) Diagonal subalgebras of bigraded algebras and embeddings of blow-ups of projective spaces. (English summary) **99d:13001**
Fröberg, Ralf ★ An introduction to Gröbner bases. (English summary) **99d:13032**
Herzog, Jürgen *see* **Conca, Aldo; et al., 99d:13001**
Hreinsdottir, Freyja The Koszul dual of the ring of commuting matrices. (English summary) **99i:13026**
Iguchi, Kazumoto Universal algebraic varieties and ideals in physics: field theory on algebraic varieties. (English summary) **99a:14075**
Krattenthaler, Christian (*with* Prohaska, M.) A remarkable formula for counting nonintersecting lattice paths in a ladder with respect to turns. (English summary) **99e:05009**
Machado, Paulo F. The initial algebra of maximal minors of a generalized Hankel matrix. (English summary) **99m:13008**
Maggioni, Renato (*with* Ragusa, Alfio) Betti numbers of space curves bounded by Hilbert functions. (English summary) **99e:14035**
Mandal, Satya (*with* Murthy, M. Pavaman) Ideals as sections of projective modules. **99d:13010**
— Complete intersection K-theory and Chern classes. **99c:13018**
Martin, Heath M. (*with* Migliore, Juan C.; Nollet, Scott) Degrees of generators of ideals defining curves in projective space. (English summary) **99b:14051**
Migliore, Juan C. *see* **Martin, Heath M.; et al., 99b:14051**
Murthy, M. Pavaman *see* **Mandal, Satya, 99d:13010**
Ngô Việt Trung *see* **Conca, Aldo; et al., 99d:13001**
Nollet, Scott *see* **Martin, Heath M.; et al., 99b:14051**
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Shin, Yong Su The construction of some Gorenstein ideals of codimension 4. (English summary) **99f:13017**
de Smit, Bart (*with* Rubin, Karl; Schoof, René) Criteria for complete intersections. (*see* **99k:11004**)
Sridharan, Raja Projective modules and complete intersections. (English summary) **99c:13019**
Steffen, Frauke Connectedness theorems for determinantal schemes. **99i:14057**
Valla, Giuseppe *see* **Conca, Aldo; et al., 99d:13001**
Watanabe, Junzo A note on complete intersections of height three. (English summary) **99a:13011**

13C99 None of the above, but in this section

DeMeyer, Frank (*with* Miranda, Rick; Schneider, Kim) Examples of the failure of the local-global principle for similarity of matrices. (English summary) **99k:13016**
Göbel, Rüdiger (*with* Shelah, Saharon) Endomorphism rings of modules whose cardinality is cofinal to omega. **99i:13021**
Miranda, Rick *see* **DeMeyer, Frank; et al., 99k:13016**
Scheja, Günter (*with* Scheja, Ortwin; Storch, Uwe) On regular sequences of binomials. (English summary) **99k:13017**
Scheja, Ortwin *see* **Scheja, Günter; et al., 99k:13017**
Schneider, Kim *see* **DeMeyer, Frank; et al., 99k:13016**
Sekiguchi, Koji On presheaves associated to modules. **99d:13015**
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Goldsmith, Brendan (*with* Zanardo, Paolo) Endomorphism rings and automorphism groups of separable torsion-free modules over valuation domains. **99i:13011**
Jukl, Marek Canonical matrices of λ-bilinear forms on modules over a certain local ring. (English summary) **99e:11041**
Laradji, Abdallah On a weak form of equational compactness. (English summary) **99m:08012**
Liu, Jung-Chen Ratliff-Rush closures and coefficient modules. (English summary) **99b:13003**
Naude, Cornelia Asymptotic primes and sequences over a module. **99m:13004**
Oneto, Anna (*with* Zatini, E.) On the value set of modules. **99i:13013**
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13Dxx (Co)homological methods

13D02 Syzygies

Aramova, Annetta (*with* De Negri, Emanuela; Herzog, Jürgen) Lexsegment ideals with linear resolution. **99m:13021**
— (*with* Herzog, Jürgen; Hibi, Takayuki) Squarefree lexsegment ideals. **99h:13013**
Avramov, Luchezar L. Infinite free resolutions. **99m:13022**
Bayer, Dave (*with* Sturmfels, Bernd) Cellular resolutions of monomial modules. (English summary) **99g:13018**
— (*with* Peeva, Irena V.; Sturmfels, Bernd) Monomial resolutions. **99c:13029**
Boij, Mats Betti numbers of compressed level algebras. (English summary) **99m:13023**
Briales, Emilio (*with* Pisón, Pilar; Campillo, Antonio; Marijuán López, Carlos) Combinatorics of syzygies for semigroup algebras. (English summary) **99m:13024**
Campillo, Antonio *see* **Briales, Emilio; et al., 99m:13024**
Chang, Shou-Te Betti numbers of modules of exponent two over regular local rings. (English summary) **99c:13030**
Choi, Sangki A note on Betti numbers and resolutions. (English summary) **99m:13025**
De Negri, Emanuela *see* **Aramova, Annetta; et al., 99m:13021**
Gasharov, Vesselin N. (*with* Peeva, Irena V.) Binomial free resolutions for normal toric surfaces. (English summary) **99i:13022**
Gokhale, Dhananjay A note on resolutions mod I. (English summary) **99h:13014**
Harbourne, Brian Free resolutions of fat point ideals on $\mathbf{P}^2$. (English summary) **99d:13016**
Herzog, Jürgen *see* **Aramova, Annetta; et al., 99h:13013** *and* **99m:13021**
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Idà, Monica General points on a quadric: resolution. **99g:13019**
Koh, Jee (*with* Lee, Kisuk) Some restrictions on the maps in minimal resolutions. (English summary) **99d:13017**
Lee, Kisuk *see* **Koh, Jee, 99d:13017**
Marijuán López, Carlos *see* **Briales, Emilio; et al., 99m:13024**
Mercier, Dany-Jack (*with* Rolland, Robert) Polynômes homogènes qui s'annulent sur l'espace projectif $\mathbf{P}^m(\mathbf{F}_q)$. (French summary) [Homogeneous polynomials that vanish on the projective space $\mathbf{P}^m(\mathbf{F}_q)$] **99h:13015**
Nagel, Uwe (*with* Schenzel, Peter) Degree bounds for generators of cohomology modules and Castelnuovo-Mumford regularity. (English summary) **99m:13026**
Nishi, Akihiro (*with* Terai, Naoki) Second and third Betti numbers of Stanley-Reisner rings of Boolean lattices. (*see* **99a:20001**)
Peeva, Irena V. (*with* Sturmfels, Bernd) Syzygies of codimension 2 lattice ideals. **99g:13020**
— *see also* **Bayer, Dave; et al., 99c:13029** *and* **Gasharov, Vesselin N., 99i:13022**
Pisón, Pilar *see* **Briales, Emilio; et al., 99m:13024**
Richman, Fred Flat dimension, constructivity, and the Hilbert syzygy theorem. (English summary) **99g:13021**
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Terai, Naoki Betti numbers of 3-dimensional Gorenstein Stanley-Reisner rings. (Japanese summary) (*see* **98e:13002**)
— *see also* **Nishi, Akihiro, (99a:20001)**
Yanagawa, Kohji F_Δ type free resolutions of monomial ideals. (English summary) **99c:13031**
Yoshida, Ken-ichi² A generalization of linear Buchsbaum modules in terms of homological degree. (English summary) **99g:13022**

Items with secondary classifications in 13D02

Aramova, Annetta (*with* Herzog, Jürgen; Hibi, Takayuki) Weakly stable ideals. **99b:13016**
Ballico, Edoardo On the graded Betti numbers for large finite subsets of curves. (English summary) **99m:14006**
Boij, Mats Gorenstein Artin algebras and points in projective space. (English summary) **99i:13033**
De Negri, Emanuela (*with* Herzog, Jürgen) Completely lexsegment ideals. (English summary) **99b:13022**

Eagon, John A. (*with* Reiner, Victor) Resolutions of Stanley-Reisner rings and Alexander duality. (English summary) **99h:13017**
Elías, Juan Sharp upper bounds for the Betti numbers of Cohen-Macaulay modules. **99e:13013**
Geramita, Anthony V. (*with* Ko, Hyoung June; Shin, Yong Su) The Hilbert function and the minimal free resolution of some Gorenstein ideals of codimension 4. (English summary) **99m:13032**
Herzog, Jürgen (*with* Kamoi, Yuji) Taylor complexes for Koszul boundaries. (English summary) **99f:13014**
— (*with* Srinivasan, Hema) Bounds for multiplicities. (English summary) **99g:13033**
— *see also* **Aramova, Annetta; et al., 99b:13016** *and* **De Negri, Emanuela, 99b:13022**
Hibi, Takayuki *see* **Aramova, Annetta; et al., 99b:13016**
Hirschowitz, André (*with* Ramanan, Sundararaman) New evidence for Green's conjecture on syzygies of canonical curves. (English and French summaries) **99a:14033**
Imig, Scott K. A construction of logarithmic 1-forms on hyperplane arrangements. (English summary) **99m:52020**
Kamoi, Yuji *see* **Herzog, Jürgen, 99f:13014**
Ko, Hyoung June *see* **Geramita, Anthony V.; et al., 99m:13032**
La Scala, Roberto (*with* Stillman, Michael) Strategies for computing minimal free resolutions. (English summary) **99k:13039**
Martin, Heath M. (*with* Migliore, Juan C.) Submodules of the deficiency modules and an extension of Dubreil's theorem. **99k:14080**
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— *see also* **Geramita, Anthony V.; et al., 99m:13032**
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13D03 (Co)homology of commutative rings and algebras

Altmann, Klaus (*with* Sletsjøe, Arne B.) André-Quillen cohomology of monoid algebras. (English summary) **99k:13018**
Blanco, Amalia (*with* Majadas Soto, Javier) Erratum: "Cotangent complex and decomposition of Tor" [C. R. Acad. Sci. Paris Sér. I Math. **323** (1996), no. 3, 219–224; MR 97g:13026]. (French) **99g:13023**
— (*with* Majadas Soto, Javier) Sur les morphismes d'intersection complète en caractéristique p. [On complete intersection morphisms in characteristic p] **99i:13023**
— (*with* Majadas Soto, Javier; Rodicio, Antonio G.) On the acyclicity of the Tate complex. (English summary) **99i:13024**
Hashimoto, Mitsuyasu Homological aspects of equivariant modules: Matijevic-Roberts and Buchsbaum-Rim. (English summary) **99i:13025**
Herzog, Jürgen (*with* Reiner, Victor; Welker, Volkmar) The Koszul property in affine semigroup rings. (English summary) **99j:13010**
Hreinsdottir, Freyja The Koszul dual of the ring of commuting matrices. (English summary) **99i:13026**
Majadas Soto, Javier *see* **Blanco, Amalia, 99g:13023; 99i:13023** *and* **99i:13024**
Michler, Ruth I. Cyclic homology of affine hypersurfaces with isolated singularities. (English summary) **99c:13032**
Reiner, Victor *see* **Herzog, Jürgen; et al., 99j:13010**
Rodicio, Antonio G. *see* **Blanco, Amalia; et al., 99i:13024**
Sletsjøe, Arne B. *see* **Altmann, Klaus, 99k:13018**
Vigué-Poirrier, Micheline Finiteness conditions for the Hochschild homology algebra of a commutative algebra. **99k:13019**
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Items with secondary classifications in 13D03

André, Michel Anneaux de valuation discrète et modules des différentielles. (English summary) [Discrete valuation rings and modules of differentials] **99h:13032**
Cortiñas, Guillermo (*with* Geller, Susan C.; Weibel, Charles A.) The Artinian Berger conjecture. **99g:13035**
Dupont, Nicolas Un diviseur de zéro induisant un élément d'homotopie central. (English and French summaries) [A zero divisor inducing a central homotopy element] **99a:55008**
Falk, Michael J. Arrangements and cohomology. (English summary) **99g:52017**
Geller, Susan C. *see* **Cortiñas, Guillermo; et al., 99g:13035**
Khashyarmanesh, K. (*with* Salarian, Sh.) General local cohomology modules and Koszul homology modules. **99f:13018**
Planas-Vilanova, Francesc On the module of effective relations of a standard algebra. **99h:13002**
Reyes Sanchez, M. V. (*with* Smet, A.; Verschoren, Alain) Involutive invariants of a Krull domain and Amitsur cohomology. (English summary) **99e:13002**
Salarian, Sh. *see* **Khashyarmanesh, K., 99f:13018**
Smet, A. *see* **Reyes Sanchez, M. V.; et al., 99e:13002**
Verschoren, Alain *see* **Reyes Sanchez, M. V.; et al., 99e:13002**
Weibel, Charles A. *see* **Cortiñas, Guillermo; et al., 99g:13035**

13D05 (Co)homological dimension [see also 18G20]

Avramov, Luchezar L. (*with* Gasharov, Vesselin N.; Peeva, Irena V.) Complete intersection dimension. (English summary) **99c:13033**
Choi, Sangki On the nonvanishing of Tor. (English summary) **99h:13016**
Chung, Sang Cho (*with* Park, Jun-Seok) E-depths and T-codepths of modules. (English summary) **99e:13018**
Gasharov, Vesselin N. *see* **Avramov, Luchezar L.; et al., 99c:13033**
Park, Jun-Seok *see* **Chung, Sang Cho, 99e:13018**
Peeva, Irena V. *see* **Avramov, Luchezar L.; et al., 99c:13033**
Salles, Danielle Dimension faible negative globale des anneaux commutatifs. (English summary) [Global negative weak dimension of commutative rings] **99i:13027**
Wang, Fang Gui A note on two-dimensional rings. **99m:13027**
Yang, Jing Hua The Jacobson radical and homological dimension of a G-semilocal ring. (Chinese. English and Chinese summaries)

Items with secondary classifications in 13D05

Avramov, Luchezar L. Infinite free resolutions. **99m:13022**
Berger, Robert W. Kommutative algebra. II. [Commutative algebra. II] **99b:13001**
Khashyarmanesh, K. (*with* Salarian, Sh.; Zakeri, H.) On the flat dimension of certain modules of generalized fractions. (English summary) **99d:13009**
Monari-Martinez, Elisabetta (*with* Rangaswamy, K. M.) Torsion-free modules over valuation domains whose balanced-projective dimension is at most one. **99g:13029**
Rangaswamy, K. M. A criterion for complete decomposability and Butler modules over valuation domains. **99g:13030**
— *see also* **Monari-Martinez, Elisabetta, 99g:13029**
Salarian, Sh. *see* **Khashyarmanesh, K.; et al., 99d:13009**
Yassemi, Siamak Width of complexes of modules. (English summary) **99g:13026**
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13D10 Deformations and infinitesimal methods [see also 14B12, 14D15, 16S80, 32Gxx]

Items with secondary classifications in 13D10

Altmann, Klaus (*with* Sletsjøe, Arne B.) André-Quillen cohomology of monoid algebras. (English summary) **99k:13018**
Araya, Tokuji (*with* Yoshino, Yuji) Remarks on a depth formula, a grade inequality and a conjecture of Auslander. (English summary) **99h:13040**
Ene, Viviana Cohen-Macaulay modules over rings of type $k[\![x, y]\!]/(x^t + y^3)$. (English summary) **99b:13018**
Martin, Bernd (*with* Pfister, Gerhard; Popescu, Dorin) Maximal Cohen-Macaulay modules over singularities of type $x^t + y^3$. **99i:13018**
Pfister, Gerhard *see* **Martin, Bernd; et al., 99i:13018**
Planas-Vilanova, Francesc On the module of effective relations of a standard algebra. **99h:13002**
Popescu, Dorin Special Cohen-Macaulay modules over singularities of type $x^{3r} + y^3$. (English summary) **99m:13019**
— *see also* **Martin, Bernd; et al., 99i:13018**
Sletsjøe, Arne B. *see* **Altmann, Klaus, 99k:13018**
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13D15 Grothendieck groups, K-theory [see also 14C35, 18F30, 19–XX]

Items with secondary classifications in 13D15

Chen, Huan Yin LUV rings and modules over their group rings. (Chinese. English and Chinese summaries) **99m:13015**
Mandal, Satya (*with* Murthy, M. Pavaman) Ideals as sections of projective modules. **99d:13010**
— Complete intersection K-theory and Chern classes. **99c:13018**
Murthy, M. Pavaman *see* **Mandal, Satya, 99d:13010**
Picavet, Gabriel Anodality. (English summary) **99b:13011**
Sridharan, Raja Projective modules and complete intersections. (English summary) **99c:13019**

13D25 Complexes

Bruns, Winfried (*with* Vetter, Udo) A remark on Koszul complexes. **99g:13024**
Dibaei, M. T. (*with* Tousi, M.) The structure of dualizing complex for a ring which is (S_2). **99k:13020**
Eagon, John A. (*with* Reiner, Victor) Resolutions of Stanley-Reisner rings and Alexander duality. (English summary) **99h:13017**
Enochs, Edgar E. (*with* García Rozas, J. R.) Flat covers of complexes. (English summary) **99m:13028**
García Rozas, J. R. *see* **Enochs, Edgar E., 99m:13028**
Hermida-Alonso, J. A. (*with* Martín Yagüez, M. C.) On the application of the factorization ideals associated to a finite free resolution. (English summary) **99e:13019**
Herzog, Jürgen (*with* Kamoi, Yuji) Taylor complexes for Koszul boundaries. (English summary) **99f:13014**
Jorgensen, David A. Existence of unliftable modules. (English summary) **99i:13028**
Kamoi, Yuji *see* **Herzog, Jürgen, 99f:13014**
Kim, Dae Sig An isomorphism of the Cousin complexes. (English summary) **99f:13015**
Kirby, David The invariance of the ideal core $(a_1, \cdots, a_n)$ of a set of homogeneous polynomials. (English summary) **99c:13034**
— The resultant and the Koszul complex of a set of forms. **99c:13035**
— A sequence of complexes generated by a finite set of homogeneous polynomials. **99h:13018**
Klimek, J. (*with* Kraśkiewicz, W.; Weyman, Jerzy) A free resolution of a symplectic rank variety. **99b:13020**
Kraśkiewicz, W. *see* **Klimek, J.; et al., 99b:13020**
Manji, Imtiaz (*with* Sánchez, Rafael) A note on the homology of the Schur complex. **99m:13029**
Martín Yagüez, M. C. *see* **Hermida-Alonso, J. A., 99e:13019**
Petzl, Henrike (*with* Sharp, Rodney Y.) Comparison of graded and ungraded Cousin complexes. (English summary) **99i:13029**
Reiner, Victor *see* **Eagon, John A., 99h:13017**
Sánchez, Rafael *see* **Manji, Imtiaz, 99m:13029**

Seĭfullin, T. R. Homology of the Koszul complex of a system of polynomial equations. (Russian. English summary) **99m:13030**
Sharp, Rodney Y. *see* **Petzl, Henrike, 99i:13029**
Tousi, M. *see* **Dibaei, M. T., 99k:13020**
Vetter, Udo *see* **Bruns, Winfried, 99g:13024**
Weyman, Jerzy *see* **Klimek, J.; et al., 99b:13020**
Woodcock, D. Cohen-Macaulay complexes and Koszul rings. **99g:13025**
Yassemi, Siamak Width of complexes of modules. (English summary) **99g:13026**

Items with secondary classifications in 13D25

Ahmadi-Amoli, Kh. Local cohomology and cohomology of certain generalized Hughes complexes. (English summary) **99e:13021**
Akin, Kaan (*with* Weyman, Jerzy) Minimal free resolutions of determinantal ideals and irreducible representations of the Lie superalgebra gl($m|n$). **99c:17011**
(Auslander, Maurice) *see* **Buchsbaum, David A., 99g:20078**
Avramov, Luchezar L. (*with* Gasharov, Vesselin N.; Peeva, Irena V.) Complete intersection dimension. (English summary) **99c:13033**
— Infinite free resolutions. **99m:13022**
Bayer, Dave (*with* Sturmfels, Bernd) Cellular resolutions of monomial modules. (English summary) **99g:13018**
Buchsbaum, David A. Intertwined with Maurice. **99g:20078**
— Letter-place methods and homotopy. **99e:20055**
Choi, Sangki A note on Betti numbers and resolutions. (English summary) **99m:13025**
Enochs, Edgar E. (*with* García Rozas, J. R.) Gorenstein injective and projective complexes. (English summary) **99i:16016**
García Rozas, J. R. *see* **Enochs, Edgar E., 99i:16016**
Gasharov, Vesselin N. *see* **Avramov, Luchezar L.; et al., 99c:13033**
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13J15 Henselian rings [see also 13B40]

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13M10 Polynomials (commutative rings)

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13N05 Modules of differentials [see also 16S32]

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14Axx Foundations

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14A10 Varieties

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14A15 Schemes

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— Technique de descente et théorèmes d'existence en géometrie algébrique. I. Généralités. Descente par morphismes fidèlement plats. [Descent technique and existence theorems in algebraic geometry. I. Generalities. Descent by faithfully flat morphisms] (*see* **99f:00037**)
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14A20 Generalizations (algebraic spaces, motifs)

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14Bxx Local theory [see also 32Sxx]

14B05 Singularities [see also 14E15, 14H20, 32Sxx, 58C27]

Cassens, Heiko (*with* Slodowy, Peter) On Kleinian singularities and quivers. **99k:14003**
Cossart, Vincent (*with* Piltant, Olivier; Reguera, Ana José) On isomorphisms of blowing-ups of complete ideals of a rational surface singularity. (English summary) **99k:14004**
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Lejeune-Jalabert, Monique *see* **González-Sprinberg, Gérard, 99c:14002**
Piltant, Olivier *see* **Cossart, Vincent; et al., 99k:14004**
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Watanabe, Kimio Three-dimensional hypersurface purely elliptic singularities. (English summary) **99j:14001**

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Chen, Hao[1] (*with* Ishii, Shihoko) On $-K^2$ for normal surface singularities. (English summary) **99f:14039**
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Corrado, Richard *see* **Berenstein, David; et al., 99k:81219**
Cynk, Sławomir Singular set of w-holomorphic functions on quasi-projective algebraic sets. (English summary) **99a:32006**
Distler, Jacques *see* **Berenstein, David; et al., 99k:81219**
Drozd, Yu. A. (*with* Greuel, Gert-Martin) On Schappert's characterization of strictly unimodal plane curve singularities. **99m:14052**
Ebeling, Wolfgang (*with* Steenbrink, Joseph H. M.) Spectral pairs for isolated complete intersection singularities. (English summary) **99c:32053**
Gaffney, Terence Equisingularity of plane sections, t_1 condition and the integral closure of modules. **99a:32052**
García López, Ricardo Exponential sums and singular hypersurfaces. (English summary) **99e:11112**
González-Sprinberg, Gérard (*with* Lejeune-Jalabert, Monique) Courbes lisses, cycle maximal et points infiniment voisins des singularités de surfaces. [Smooth curves, maximal cycle and infinitely near points of surface singularities] **99h:14038**
Greuel, Gert-Martin (*with* Lossen, Christoph; Shustin, Evgenii) Plane curves of minimal degree with prescribed singularities. (English summary) **99g:14035**
— *see also* **Drozd, Yu. A., 99m:14052**
Gusein-Zade, Sabir M. (*with* Varchenko, A. N.) Verlinde algebras and the intersection form on vanishing cycles. (English summary) **99b:32057**
Hara, Nobuo Classification of two-dimensional F-regular and F-pure singularities. **99a:14048**
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Ishii, Shihoko (*with* Tomari, Masataka) Hypersurface non-rational singularities which look like canonical from its Newton boundary. **99m:32044**
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Oort, Frans Alterations can remove singularities. **99i:14021**
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Yu, Jian Ming (*with* Zou, Jian Cheng) A simple introduction to singularity theory. (Chinese. English and Chinese summaries)
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14B07 Deformations of singularities [see also 14D15, 32Sxx]

Crawley-Boevey, William (*with* Holland, Martin P.) Noncommutative deformations of Kleinian singularities. **99f:14003**
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de Jong, Theo (*with* van Straten, Duco) Deformation theory of sandwiched singularities. **99j:14002**
Kawamata, Yūjirō Deformations of canonical singularities. (English summary) **99g:14003**
du Plessis, A. A. (*with* Wall, C. T. C.) Versal deformations in spaces of polynomials of fixed weight. (English summary) **99k:14005**
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Fantechi, Barbara (*with* Manetti, Marco) Obstruction calculus for functors of Artin rings. I. (English summary) **99f:14004**
Friedman, Robert David (*with* Morgan, John W.; Witten, Edward) Vector bundles and F theory. (English summary) **99g:14052**
Gawlick, Thomas ★ Mordell-Weil-Gitter und exotische Deformationen von Viereckssingularitäten der Einbettungsdimension drei. (German) [Mordell-Weil lattices and exotic deformations of quadrilateral singularities of embedding dimension three] **99b:32055**
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Namikawa, Yoshinori Smoothing Fano 3-folds. **99d:14040**
Ruas, Maria Aparecida Soares (*with* Saia, Marcelo José) The polyhedron of equisingularity of germs of hypersurfaces. **99a:32054**
Saia, Marcelo José *see* **Ruas, Maria Aparecida Soares, 99a:32054**
Schröter, Caren (*with* Schuba, Sonja) The deformations of the simple space curve singularities. **99k:32063**
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14B10 Infinitesimal methods [see also 13D10]

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Fantechi, Barbara (*with* Manetti, Marco) On the T^1-lifting theorem. **99j:14009**
González-Sprinberg, Gérard *see* **Campillo, Antonio, 99i:14019**
Kawai, Shingo Isomonodromic deformation of Fuchsian-type projective connections on elliptic curves. **99h:14006**
Keel, Seán (*with* McKernan, James) Rational curves on quasi-projective surfaces. (English summary) **99m:14068**
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Westhoff, Randall F. Computing the infinitesimal invariants associated to deformations of subvarieties. (English summary) **99i:14010**
Yekutieli, Amnon Residues and differential operators on schemes. **99j:14019**

14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Fantechi, Barbara (*with* Manetti, Marco) Obstruction calculus for functors of Artin rings. I. (English summary) **99f:14004**
Manetti, Marco *see* **Fantechi, Barbara, 99f:14004**

Items with secondary classifications in 14B12

Fantechi, Barbara (*with* Manetti, Marco) On the T^1-lifting theorem. **99j:14009**
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Namikawa, Yoshinori Smoothing Fano 3-folds. **99d:14040**
Rotthaus, Christel Excellent rings, Henselian rings, and the approximation property. **99k:13031**
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14B15 Local cohomology [see also 13D45, 32C36]

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Nagel, Uwe (*with* Schenzel, Peter) Degree bounds for generators of cohomology modules and Castelnuovo-Mumford regularity. (English summary) **99m:13026**
Peterson, Christopher S. Quasicomplete intersections, powers of ideals, and deficiency modules. **99m:14091**
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14B20 Formal neighborhoods

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14B99 None of the above, but in this section

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Cutkosky, Steven Dale Local factorization of birational maps. **99c:14018**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

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Bottacin, F. Poisson structures on Hilbert schemes of points of a surface and integrable systems. (English summary) **99m:14003**
Cheah, Jan Cellular decompositions for nested Hilbert schemes of points. (English summary) **99d:14002**
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Grothendieck, Alexander Techniques de construction et théorèmes d'existence en géométrie algébrique. IV. Les schémas de Hilbert. [Construction techniques and existence theorems in algebraic geometry. IV. Hilbert schemes] (*see* **99f:00038**)
Johnsen, Trygve (*with* Kleiman, Steven L.) Toward Clemens' conjecture in degrees between 10 and 24. (English summary) **99g:14004**
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Kleppe, Jan O. The smoothness and the dimension of $\mathrm{PGor}(H)$ and of other strata of the punctual Hilbert scheme. **99k:14007**
— (*with* Miró-Roig, Rosa M.) The dimension of the Hilbert scheme of Gorenstein codimension 3 subschemes. (English summary) **99a:14002**
Lima-Filho, P. *see* **Elizondo, E. Javier, 99m:14004**
Lopez, Angelo Felice Surjectivity of Gaussian maps on curves in $\mathbf{P}^r$ with general moduli. **99h:14003**
Mall, Daniel Characterisations of lexicographic sets and simply-connected Hilbert schemes. (English summary) **99k:14008**
Martin-Deschamps, Mireille (*with* Piene, Ragni) Arithmetically Cohen-Macaulay curves in $\mathbf{P}^4$ of degree 4 and genus 0. (English summary) **99b:14001**
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— The Heisenberg algebra and Hilbert schemes of points on surfaces. (Japanese)

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Rojas, Jacqueline Fabiola (*with* Vainsencher, Israel) Conical sextuplets. (English summary) **99c:14003**
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Göttsche, Lothar Orbifold-Hodge numbers of Hilbert schemes. **99c:14022**
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Kaledin, D. (*with* Verbitsky, M.) Trianalytic subvarieties of generalized Kummer varieties. **99i:53047**
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Wilson, George Bispectral algebras of ordinary differential operators. **99f:58108**
— Collisions of Calogero-Moser particles and an adelic Grassmannian. **99f:58107**
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14C10 Equivalence relations

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Campillo, Antonio (*with* González-Sprinberg, Gérard) On characteristic cones, clusters and chains of infinitely near points. **99i:14019**
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14C15 Rational equivalence rings

del Angel R., Pedro Luis (*with* Müller-Stach, Stefan J.) Motives of uniruled 3-folds. (English summary) **99c:14004**
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Chang, Mei-Chu Distributions of Chern numbers of complete intersection three-folds. (English summary) **99h:14005**
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— Equivariant Chow rings of $\mathrm{O}(k)$, $\mathrm{SO}(2k+1)$, and $\mathrm{SO}(4)$. (English summary) **99e:14001**
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Cheah, Jan Cellular decompositions for nested Hilbert schemes of points. (English summary) **99d:14002**
Friedlander, Eric M. (*with* Lawson, H. Blaine, Jr.) Moving algebraic cycles of bounded degree. **99k:14011**
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Künnemann, Klaus The Kähler identity for bigraded Hodge-Lefschetz modules and its application in non-Archimedean Arakelov geometry. (English summary) **99i:14029**
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Saito, Shuji[1] Algebraic cycles and Hodge theory (about higher dimensionalization of abelian theory). (Japanese) **99e:14004**
Takeda, Yuichiro A relation between standard conjectures and their arithmetic analogues. **99m:14047**

14C17 Intersection theory

Achilles, Rüdiger (*with* Manaresi, Mirella) Multiplicities of a bigraded ring and intersection theory. **99a:14005**
Brion, Michel Curves and divisors in spherical varieties. **99f:14006**
— Equivariant cohomology and equivariant intersection theory. (English summary) **99m:14005**
Czaja, Konrad On n-intersection product on compact complex n-dimensional manifold. (English and Polish summaries) **99e:14002**
Edidin, Dan (*with* Graham, William A.) Localization in equivariant intersection theory and the Bott residue formula. (English summary) **99g:14005**
— (*with* Graham, William A.) Equivariant intersection theory. **99j:14003a**
— *see also* **Vistoli, Angelo**, **99j:14003b**
Fulton, William ★ Intersection theory. **99d:14003**
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Li, Jun[1] (*with* Tian, Gang) Algebraic and symplectic geometry of Gromov-Witten invariants. **99j:14004**
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Pragacz, Piotr Symmetric polynomials and divided differences in formulas of intersection theory. **99b:14002**
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Tian, Gang *see* **Li, Jun**[1], **99j:14004**
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Xambó-Descamps, Sebastian ★ Using intersection theory. (Spanish summary) **99j:14005**

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Brasselet, Jean-Paul Classes caractéristiques et nombres caractéristiques des ensembles analytiques complexes: un bilan. [On characteristic classes and characteristic numbers of complex analytic fields] **99c:32057**
Campana, Frédéric Negativity of compact curves in infinite covers of projective surfaces. **99h:14014**
Chądzyński, Jacek (*with* Krasiński, Tadeusz; Tworzewski, Piotr) On the intersection multiplicity of analytic curves in $\mathbf{C}^m$. (English summary) **99a:32005**
(Ciocan-Fontanine, Ionuţ) *see* **Fulton, William**, **99m:14092**
Colombo, Elisabetta (*with* Pirola, Gian Pietro) An intersection result for families of abelian varieties. (English summary) **99c:14058**
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Eguchi, Tohru (*with* Xiong, Chuan-Sheng) Quantum cohomology at higher genus: topological recursion relations and Virasoro conditions. (English summary) **99i:14033**
Ein, Lawrence (*with* Lazarsfeld, Robert; Nakamaye, Michael) Zero-estimates, intersection theory, and a theorem of Demailly. **99c:14006**
Flenner, Hubert (*with* Manaresi, Mirella) Variation of ramification loci of generic projections. (English summary) **99j:14015**
Fulton, William (*with* Pragacz, Piotr) ★ Schubert varieties and degeneracy loci. **99m:14092**
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Hübl, R. (*with* Kunz, Ernst) On the intersection of algebraic curves and hypersurfaces. **99h:14019**
Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) Isotropy of six-dimensional quadratic forms over function fields of quadrics. (English summary) **99j:11039**
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— *see also* **Ein, Lawrence; et al.**, **99c:14006**
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Pragacz, Piotr The status of Hilbert's Fifteenth Problem in 1993. (Polish. English summary) **99f:14065**
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Xu, Geng On the intersection of rational curves with cubic plane curves. **99e:14036**

14C20 Divisors, linear systems, invertible sheaves

Ballico, Edoardo A positive characteristic extension of a result of del Busto on line bundles on an algebraic surface. (English summary) **99f:14007**
— On the ampleness of line bundles on blown-up complex surfaces. **99g:14006**
— On the graded Betti numbers for large finite subsets of curves. (English summary) **99m:14006**
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Beltrametti, Mauro C. (*with* Sommese, Andrew J.) Sharp Matsusaka-type theorems on surfaces. (English summary) **99d:14004**
Bertolini, Marina Codimension 2 and 3 pluricanonical embeddings in projective spaces. (English and Italian summaries) **99d:14005**
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Cartier, Pierre Diviseurs amples. [Ample divisors] (*see* **99f:00041**)
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Chiantini, Luca (*with* Ciliberto, Ciro) Towards a Halphen theory of linear series on curves. (English summary) **99i:14006**
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Coppens, Marc Brill-Noether theory for non-special linear systems. II. Connectedness and irreducibility. (English summary) **99b:14003**
Ein, Lawrence (*with* Lazarsfeld, Robert; Nakamaye, Michael) Zero-estimates, intersection theory, and a theorem of Demailly. **99c:14006**
Fujita, Takao On Kodaira energy and adjoint reduction of polarized threefolds. **99a:14007**

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— On relative Kodaira energy of quasi-polarized fibre spaces and its application. (English summary) **99c:14007**
— (*with* Ishihara, Hironobu) Complex manifolds polarized by an ample and spanned line bundle of sectional genus three. (English summary) **99g:14007**
— A lower bound for $K_X L$ of quasi-polarized surfaces (X, L) with non-negative Kodaira dimension. (English summary) **99m:14008**
— On the nonemptiness of the adjoint linear system of polarized manifolds. (English summary) **99j:14006**
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Ishihara, Hironobu *see* **Fukuma, Yoshiaki, 99g:14007**
Kato, Takao (*with* Keem, Changho; Ohbuchi, Akira) Variety of special linear systems on k-sheeted coverings. (English summary) **99a:14009**
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Kim, Seonja On the Clifford sequence of a general k-gonal curve. (English summary) **99d:14006**
Laface, Antonio A very ampleness result. (English summary) **99i:14007**
Lanteri, Antonio (*with* Turrini, Cristina) Elliptic surfaces with a nef line bundle of genus two. (English summary) **99m:14010**
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Mezzetti, Emilia (*with* Portelli, Dario) Linear systems representing threefolds which are scrolls on a rational surface. (English summary) **99m:14011**
Miranda, Rick Linear systems of plane curves. **99m:14012**
Nakamaye, Michael *see* **Ein, Lawrence; et al., 99c:14006**
Néron, André Le lemme d'Enriques-Severi (d'après O. Zariski). [The Enriques-Severi lemma (after O. Zariski)] (*see* **99f:00034**)
Ohbuchi, Akira On some numerical relations of d-gonal linear systems. (English summary) **99b:14005**
— *see also* **Kato, Takao; et al., 99a:14009**
Portelli, Dario *see* **Mezzetti, Emilia, 99m:14011**
Sommese, Andrew J. *see* **Beltrametti, Mauro C., 99d:14004**
Spreafico, Maria Luisa Axiomatic theory for transversality and Bertini type theorems. (English summary) **99f:14008**
Steffens, A. Remarks on Seshadri constants. **99c:14009**
Terakawa, Hiroyuki Higher order embeddings of algebraic surfaces of Kodaira dimension zero. **99m:14013**
— The d-very ampleness on a projective surface in positive characteristic. (English summary) **99m:14014**
Turrini, Cristina *see* **Lanteri, Antonio, 99m:14010**
Zucconi, Francesco Surfaces with canonical map of degree three and $K^2 = 3p_g - 5$. **99c:14010**

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— (*with* Keem, Changho) Variety of linear systems on double covering curves. (English summary) **99c:14042**
— (*with* Keem, Changho; Martens, Gerriet; Ohbuchi, Akira) On curves of genus eight. **99b:14027**
Beltrametti, Mauro C. (*with* Di Rocco, Sandra; Sommese, Andrew J.) On higher order embeddings of Fano threefolds by the anticanonical linear system. (English summary) **99d:14036**
Berry, T. G. Construction of linear systems on hyperelliptic curves. (English summary) **99k:14091**
(Bertini, Eugenio) *see* **Kleiman, Steven L., 99m:14001**
Brasselet, Jean-Paul Poincaré morphism and divisors of compact toric varieties. **99b:14055**
Brion, Michel Curves and divisors in spherical varieties. **99f:14006**
Buium, Alexandru Intersection multiplicities on abelian varieties. **99f:14061**
Chen, Zhi Hua (*with* Yau, Qin) The arithmetic genus and extrinsic geometry of smooth projective variety. (English summary) **99g:14069**
Colombo, Elisabetta (*with* Pirola, Gian Pietro) An intersection result for families of abelian varieties. (English summary) **99c:14058**
D'Ambros, Paola (*with* Lanteri, Antonio) Two comparison theorems for special varieties. **99g:14056**
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Di Rocco, Sandra *see* **Beltrametti, Mauro C.; et al., 99d:14036**
Fania, Maria Lucia (*with* Livorni, Elvira Laura) Degree ten manifolds of dimension n greater than or equal to 3. (English summary) **99d:14035**
de Fernex, Tommaso Ample vector bundles with sections vanishing along conic fibrations over curves. (English summary) **99f:14056**
Fujita, Takao An appendix to T. Kawachi-V. Maşek's paper on global generation of adjoint bundles on normal surfaces: "Reider-type theorems on normal surfaces" [J. Algebraic Geom. **7** (1998), no. 2, 239–249; MR 99f:14040]. **99f:14041**
Fukuma, Yoshiaki On polarized surfaces (X, L) with $h^0(L) > 0$, $\kappa(X) \geq 0$ and $g(L) = q(X) + 1$. (English summary) **99d:14027**
— On sectional genus of quasi-polarized 3-folds. (English summary) **99c:14051**
Gallego, Francisco Javier (*with* Purnaprajna, B. P.) Very ampleness and higher syzygies for Calabi-Yau threefolds. **99g:14048**
Harbourne, Brian Free resolutions of fat point ideals on $\mathbf{P}^2$. (English summary) **99d:13016**
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Kleiman, Steven L. Bertini and his two fundamental theorems. (English summary) **99m:14001**
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— *see also* **D'Ambros, Paola, 99g:14056**
Livorni, Elvira Laura *see* **Fania, Maria Lucia, 99d:14035**
Lopez, Angelo Felice Surjectivity of Gaussian maps on curves in $\mathbf{P}^r$ with general moduli. **99h:14003**
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Maşek, Vladimir Kawachi's invariant for normal surface singularities. (English summary) **99k:14057**
— *see also* **Kawachi, Takeshi, 99f:14040** *and* **Fujita, Takao, 99f:14041**
Mitsunari, Shigeo A special divisor on a double covering of a compact Riemann surface. **99c:14039**
Moriwaki, Atsushi Relative Bogomolov's inequality and the cone of positive divisors on the moduli space of stable curves. (English summary) **99a:14034**
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Ohbuchi, Akira On the difference of 4-gonal linear systems on some curves. (English summary) **99d:14020**
— *see also* **Ballico, Edoardo; et al., 99b:14027**
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Pukhlikov, Aleksandr V. Birational automorphisms of Fano hypersurfaces. **99i:14046**
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Sommese, Andrew J. *see* **Beltrametti, Mauro C.; et al., 99d:14036**
Takayama, Shigeharu On relative base point freeness of adjoint bundle. (English summary) **99d:32039**
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14C21 Pencils, nets, webs [see also 53A60]

Shioda, Tetsuji On Q-split Bézout intersection. (English summary) **99m:14015**

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— Sur l'algébrisation des tissus de codimension n de $\mathbf{C}^{2n}$. (English and French summaries) [Algebraization of codimension-n webs in $\mathbf{C}^{2n}$] **99a:53012**
Wall, C. T. C. Pencils of binary quartics. **99k:14025**

14C22 Picard groups

Barbieri Viale, Luca (*with* Srinivas, Vasudevan) Albanese and Picard 1-motives. (English and French summaries) **99k:14010**
Giraud, Jean Groupe de Picard, anneaux factoriels (d'après A. Grothendieck). [Picard group, unique factorization domains (after A. Grothendieck)] (*see* **99f:00040**)
Grothendieck, Alexander Technique de descente et théorèmes d'existence en géométrie algébrique. V. Les schémas de Picard: théorèmes d'existence. [Descent technique and existence theorems in algebraic geometry. V. Picard schemes: existence theorems] (*see* **99f:00039**)
— Technique de descente et théorèmes d'existence en géométrie algébrique. VI. Les schémas de Picard: propriétés générales. [Descent technique and existence theorems in algebraic geometry. VI. Picard schemes: general properties] (*see* **99f:00039**)
Srinivas, Vasudevan *see* **Barbieri Viale, Luca, 99k:14010**

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Brion, Michel Curves and divisors in spherical varieties. **99f:14006**
Laszlo, Yves *see* **Beauville, Arnaud; et al., 99i:14011**
Le Potier, J. Problème de Brill-Noether et groupe de Picard de l'espace de modules des faisceaux semi-stables sur le plan projectif. [Brill-Noether problem and Picard group of the moduli space of semistable sheaves on the projective plane] **99k:14020**
Sorger, Christoph Le groupe de Picard de la variété des thêta-caractéristiques des courbes planes. [Picard group of the variety of theta-characteristics of plane curves] **99i:14017**
— *see also* **Beauville, Arnaud; et al., 99i:14011**
Welters, Gerald E. Selmer groups and Picard groups. (English summary) **99c:11070**
— Abelian varieties and the class invariant homomorphism. (English summary) **99m:14080**

14C25 Algebraic cycles

Friedlander, Eric M. (*with* Lawson, H. Blaine, Jr.) Moving algebraic cycles of bounded degree. **99k:14011**
Frossard, Emmanuelle Fibres dégénérées des schémas de Severi-Brauer d'ordres. [Degenerate fibers of Brauer-Severi schemes of orders] **99b:14006**
— Groupe de Chow de dimension zéro des fibrations en variétés de Severi-Brauer. (English summary) [Zero-dimensional Chow group of fibrations in Severi-Brauer varieties] **99c:14011**
Green, Mark L. Higher Abel-Jacobi maps. **99k:14012**
van Hamel, Joost *see* **Mangolte, Frédéric, 99k:14015**
Laterveer, Robert Algebraic varieties with small Chow groups. **99k:14013**
Lawson, H. Blaine, Jr. (*with* Lima-Filho, P.; Michelsohn, M.-L.) On equivariant algebraic suspension. (English summary) **99m:14016**
— *see also* **Friedlander, Eric M., 99k:14011**
Lewis, James D. A duality pairing between cohomology and higher Chow groups. (English summary) **99k:14014**
Lima-Filho, P. *see* **Lawson, H. Blaine, Jr.; et al., 99m:14016**
Mangolte, Frédéric (*with* van Hamel, Joost) Algebraic cycles and topology of real Enriques surfaces. (English summary) **99k:14015**

Michelsohn, M.-L. *see* **Lawson, H. Blaine, Jr.; et al., 99m:14016**
Milne, J. S. Lefschetz classes on abelian varieties. **99m:14017**
Mostovoy, Jacob Spaces of real algebraic cycles on $\mathbf{CP}^n$. (Russian) **99i:14008**
Saito, Shuji[I] Algebraic cycles and Hodge theory (about higher dimensionalization of abelian theory). (Japanese) **99e:14004**
Sato, Kanetomo Injectivity of the cycle maps of codimension 2 of nonsingular complete varieties with semistable rings over p-adic fields. (Japanese) (*see* **99a:11003**)
Schoen, Chad An integral analog of the Tate conjecture for one-dimensional cycles on varieties over finite fields. **99e:14005**
— On the image of the l-adic Abel-Jacobi map for a variety over the algebraic closure of a finite field. **99m:14018**
Voisin, Claire Une preuve élémentaire de la trivialité du groupe CH_0 d'une surface d'Enriques. [An elementary proof of the triviality of the group CH_0 of an Enriques surface] **99j:14007**

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Bloch, Spencer Lectures on mixed motives. **99g:11073**
Bogomolov, Fedor A. (*with* de Oliveira, Bruno) Stein small deformations of strictly pseudoconvex surfaces. (English summary) **99a:32015**
Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Rational points and zero-cycles on fibred varieties: Schinzel's hypothesis and Salberger's device. **99i:14027**
Consani, Caterina Double complexes and Euler L-factors. (English summary) **99b:11065**
Elizondo, E. Javier (*with* Lima-Filho, P.) Chow quotients and projective bundle formulas for Euler-Chow series. (English summary) **99m:14004**
Grothendieck, Alexander Théorèmes de dualité pour les faisceaux algébriques cohérents. [Duality theorems for coherent algebraic sheaves] (*see* **99f:00036**)
Künnemann, Klaus Projective regular models for abelian varieties, semistable reduction, and the height pairing. **99m:14043**
Langer, Andreas 0-cycles on the elliptic modular surface of level 4. (English summary) **99k:14009**
Levine, Marc ★ Mixed motives. (English summary) **99i:14025**
Lima-Filho, P. *see* **Elizondo, E. Javier, 99m:14004**
Moonen, B. J. J. (*with* Zarkhin, Yu. G.) Weil classes on abelian varieties. **99a:14010**
Müller-Stach, Stefan J. Constructing indecomposable motivic cohomology classes on algebraic surfaces. (English summary) **99k:14016**
Nagel, Jan Effective bounds for Nori's connectivity theorem. (English and French summaries) **99e:14021**
— The generalized Hodge conjecture for the quadratic complex of lines in projective four-space. (English summary) **99m:14020**
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Peyre, Emmanuel Galois cohomology in degree three and homogeneous varieties. (English summary) **99k:14017**
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Takeda, Yuichiro A relation between standard conjectures and their arithmetic analogues. **99m:14047**
Tankeev, S. G. Algebraic cycles on a simple $4p$-dimensional abelian variety over a number field. (English summary) **99m:14079**
Zarkhin, Yu. G. *see* **Moonen, B. J. J., 99a:14010**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

Arapura, Donu (*with* Oh, Kyungho) On the Abel-Jacobi map for non-compact varieties. **99g:14008**
Fujisawa, Taro Limits of Hodge structures in several variables. (English summary) **99m:14019**
Gyoja, Akihiko Mixed Hodge theory and prehomogeneous vector spaces. **99i:14009**
Hain, Richard M. The Hodge de Rham theory of relative Malcev completion. (English and French summaries) **99f:14009**
Kawahara, Yukihito The mixed Hodge structure on the fundamental group of the fiber type 2-arrangement. (English summary) **99b:14007**
Moonen, B. J. J. (*with* Zarkhin, Yu. G.) Weil classes on abelian varieties. **99a:14010**
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Oh, Kyungho *see* **Arapura, Donu, 99g:14008**
Rossi, Michele Hodge theory on some invariant threefolds of even degree. (English summary) **99d:14007**
Schoen, Chad Addendum to: "Hodge classes on self-products of a variety with an automorphism" [Compositio Math. **65** (1988), no. 1, 3–32; MR 89c:14013]. (English summary) **99m:14021**
Zarkhin, Yu. G. *see* **Moonen, B. J. J., 99a:14010**

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Biswas, Indranil (*with* Narasimhan, M. S.) Hodge classes of moduli spaces of parabolic bundles over the general curve. **99a:14017**
— Hodge cycles on moduli spaces of parabolic bundles over the general hyperelliptic curve. **99a:14018**
Green, Mark L. Higher Abel-Jacobi maps. **99k:14012**
Hain, Richard M. (*with* Looijenga, Eduard) Mapping class groups and moduli spaces of curves. **99a:14032**
Kulikov, Valentin S. ★ Mixed Hodge structures and singularities. (English summary) **99d:14009**
Laterveer, Robert Algebraic varieties with small Chow groups. **99k:14013**
Leroy, Sandrine Variétés d'Albanese supérieures d'une variété kählérienne compacte. (English and French summaries) [Higher Albanese manifolds of a compact Kähler manifold] **99k:32047**
Lewis, James D. A duality pairing between cohomology and higher Chow groups. (English summary) **99k:14014**
Looijenga, Eduard *see* **Hain, Richard M., 99a:14032**
Milne, J. S. Lefschetz classes on abelian varieties. **99m:14017**
Nagel, Jan Effective bounds for Nori's connectivity theorem. (English and French summaries) **99e:14021**
Narasimhan, M. S. *see* **Biswas, Indranil, 99a:14017**
Saito, Shuji[I] Algebraic cycles and Hodge theory (about higher dimensionalization of abelian theory). (Japanese) **99e:14004**
Simpson, Carlos The Hodge filtration on nonabelian cohomology. **99g:14028**
Takayama, Shigeharu Nonvanishing theorems on an algebraic variety with large fundamental group. **99k:14030**
Tankeev, S. G. Algebraic cycles on a simple $4p$-dimensional abelian variety over a number field. (English summary) **99m:14079**
Wojtkowiak, Zdzisław Monodromy of iterated integrals and non-abelian unipotent periods. **99m:14024**

14C34 Torelli problem [see also 32G20]

Usui, Sampei Torelli-type problems. (Japanese) **99d:14008**

Items with secondary classifications in 14C34

Arapura, Donu (*with* Oh, Kyungho) On the Abel-Jacobi map for non-compact varieties. **99g:14008**
Oh, Kyungho *see* **Arapura, Donu, 99g:14008**
Pardini, Rita On the period map for abelian covers of projective varieties. **99g:14010**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 19Exx]

Burgos, Jose Ignacio (*with* Wang, Steve) Higher Bott-Chern forms and Beilinson's regulator. (English summary) **99j:14008**
Müller-Stach, Stefan J. Constructing indecomposable motivic cohomology classes on algebraic surfaces. (English summary) **99k:14016**
Peyre, Emmanuel Galois cohomology in degree three and homogeneous varieties. (English summary) **99k:14017**
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Wang, Steve *see* **Burgos, Jose Ignacio, 99j:14008**

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Friedlander, Eric M. Motivic complexes of Suslin and Voevodsky. (English summary) **99g:14025**
Geisser, Thomas Tate's conjecture, algebraic cycles and rational K-theory in characteristic p. (English summary) **99c:19003**
Goncharov, A. B. (*with* Levin, Andreĭ Mikhailovich) Zagier's conjecture on $L(E,2)$. (English summary) **99h:19006**
Levin, Andreĭ Mikhailovich *see* **Goncharov, A. B., 99h:19006**
Levine, Marc ★ Mixed motives. (English summary) **99i:14025**
Lewis, James D. A duality pairing between cohomology and higher Chow groups. (English summary) **99k:14014**
Morel, Fabien Voevodsky's proof of Milnor's conjecture. **99e:19005**
Takeda, Yuichiro On the K-groups of spherical varieties. **99h:14050**
Yao, Dongyuan A Quillen-Gersten type spectral sequence for the K-theory of schemes with endomorphisms. (English summary) **99d:19004**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Ernström, Lars (*with* Ohmoto, Toru; Yokura, Shoji) On topological Radon transformations. (English summary) **99a:14011**
Esnault, Hélène A remark on an algebraic Riemann-Roch formula for flat bundles. (English summary) **99c:14012**
Köck, Bernhard The Grothendieck-Riemann-Roch theorem for group scheme actions. (English and French summaries) **99f:14010**
Kusaba, Toshio A note on the Riemann-Roch theorem for elliptic curves over **C**. **99g:14009**
Ohmoto, Toru *see* **Ernström, Lars; et al., 99a:14011**
Yokura, Shoji *see* **Ernström, Lars; et al., 99a:14011**

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Albeverio, Sergio (*with* Jost, Jürgen; Paycha, Sylvie; Scarlatti, Sergio) ★ A mathematical introduction to string theory. (English summary) **99d:58178**
Bost, Jean-Benoît Analytic torsion of projective spaces and compatibility with immersions of Quillen metrics. **99h:14030**
Bressler, Paul (*with* Nest, Ryszard; Tsygan, Boris) A Riemann-Roch type formula for the microlocal Euler class. **99g:58118**
Gray, Jeremy J. The Riemann-Roch theorem and geometry, 1854–1914. (English summary) **99k:14001**
Jost, Jürgen *see* **Albeverio, Sergio; et al., 99d:58178**
Köhler, Kai (*with* Roessler, Damien) Un théorème du point fixe de Lefschetz en géométrie d'Arakelov. (English and French summaries) [A Lefschetz fixed point theorem in Arakelov geometry] **99m:14046**
Müller-Stach, Stefan J. Constructing indecomposable motivic cohomology classes on algebraic surfaces. (English summary) **99k:14016**
Nest, Ryszard *see* **Bressler, Paul; et al., 99g:58118**
Pappas, Georgios Galois modules and the theorem of the cube. **99d:11122**
Paycha, Sylvie *see* **Albeverio, Sergio; et al., 99d:58178**
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Scarlatti, Sergio *see* **Albeverio, Sergio; et al., 99d:58178**
Tsygan, Boris *see* **Bressler, Paul; et al., 99g:58118**

14C99 None of the above, but in this section

Ballico, Edoardo (*with* Chiantini, Luca) Nodal curves and postulation of generic fat points on $\mathbf{P}^2$. (English summary) **99m:14022**
Chiantini, Luca *see* **Ballico, Edoardo, 99m:14022**

Items with secondary classifications in 14C99

Kreuzer, Bettina (*with* Kreuzer, Martin) Extremal zero-dimensional subschemes of $\mathbf{P}^2$. (English summary) **99g:14061**
Kreuzer, Martin ★ Beiträge zur Theorie der nulldimensionalen Unterschemata projektiver Räume. (German) [Contributions to the theory of zero-dimensional subschemes of projective spaces] **99h:13029**
— *see also* **Kreuzer, Bettina, 99g:14061**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Kawai, Shingo Isomonodromic deformation of Fuchsian-type projective connections on elliptic curves. **99h:14006**
Önsiper, Hurşit (*with* Sertöz, A. Sinan) On degenerations of fiber spaces of curves of genus ≥ 2. (English summary) **99b:14008**
Sertöz, A. Sinan *see* **Önsiper, Hurşit, 99b:14008**

Items with secondary classifications in 14D05

Alishahiha, Mohsen Simple derivation of the Picard-Fuchs equations for the Seiberg-Witten models. (English summary) **99c:81226**
Batyrev, V. V. (*with* Ciocan-Fontanine, Ionuţ; Kim, Bumsig; van Straten, Duco) Conifold transitions and mirror symmetry for Calabi-Yau complete intersections in Grassmannians. (English summary) **99m:14074**
Bolibrukh, A. A. Hilbert's twenty-first problem for linear Fuchsian systems. (Russian. English and Russian summaries) **99a:32022**
Cappelli, Andrea (*with* Valtancoli, Paolo; Vergnano, Luca) Isomonodromic properties of the Seiberg-Witten solution. (English summary) **99i:81224**
Ciocan-Fontanine, Ionuţ *see* **Batyrev, V. V.; et al., 99m:14074**
Donagi, Ron Y. Principal bundles on elliptic fibrations. (English summary) **99d:14010**
Ito, Katsushi (*with* Yang, Sung-Kil) Flat coordinates, topological Landau-Ginzburg models and the Seiberg-Witten period integrals. (English summary) **99d:81158**
Kanno, Hiroaki (*with* Ohta, Yūji) Picard-Fuchs equation and prepotential of five-dimensional SUSY gauge theory compactified on a circle. (English summary) **99i:81241**
Kim, Bumsig *see* **Batyrev, V. V.; et al., 99m:14074**
Lerche, Wolfgang Fayer-Iliopoulos potentials from four-folds. (English summary) **99e:81242**
Masuda, Takahiro (*with* Suzuki, Hisao) Periods and prepotential of $N = 2$ SU(2) supersymmetric Yang-Mills theory with massive hypermultiplets. (English summary) **99b:81245**
Ogata, Shoetsu (*with* Saitō, Masa-Hiko) Signature defects and eta functions of degenerations of abelian varieties. **99c:14059**
Ohta, Yūji *see* **Kanno, Hiroaki, 99i:81241**
Palamodov, V. P. Special functions of several variables. **99m:32045**
Ruiz-Altaba, Martí The quantum group of Seiberg-Witten theory. (English summary) **99e:81103**
Sabbah, Claude Frobenius manifolds: isomonodromic deformations and infinitesimal period mappings. **99k:32031**
Saitō, Masa-Hiko *see* **Ogata, Shoetsu, 99c:14059**
van Straten, Duco *see* **Batyrev, V. V.; et al., 99m:14074**
Suzuki, Hisao *see* **Masuda, Takahiro, 99b:81245**
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14D07 Variation of Hodge structures

Barannikov, S. A. (*with* Kontsevich, Maxim) Frobenius manifolds and formality of Lie algebras of polyvector fields. **99b:14009**
Kontsevich, Maxim *see* **Barannikov, S. A., 99b:14009**
Kulikov, Valentin S. ★ Mixed Hodge structures and singularities. (English summary) **99d:14009**
Pardini, Rita On the period map for abelian covers of projective varieties. **99g:14010**
Sabbah, Claude Monodromy at infinity and Fourier transform. (English summary) **99f:14011**
Terasoma, Tomohide Cohomological Radon transform and mixed twisted Ehrhart polynomial. **99h:14007**
Voisin, Claire ★ Variations of Hodge structure of Calabi-Yau threefolds. **99m:14023**
Wojtkowiak, Zdzisław Monodromy of iterated integrals and non-abelian unipotent periods. **99m:14024**

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Fujisawa, Taro Limits of Hodge structures in several variables. (English summary) **99m:14019**
Green, Mark L. Higher Abel-Jacobi maps. **99k:14012**
Hain, Richard M. The Hodge de Rham theory of relative Malcev completion. (English and French summaries) **99f:14009**
Huber, Annette (*with* Wildeshaus, Jörg) Classical motivic polylogarithm according to Beilinson and Deligne. (English summary) **99k:19001a**
— (*with* Wildeshaus, Jörg) Correction to the paper: "Classical motivic polylogarithm according to Beilinson and Deligne". (English summary) **99k:19001b**
Kabanov, Alexandre I. The second cohomology with symplectic coefficients of the moduli space of smooth projective curves. (English summary) **99m:14051**
Müller-Stach, Stefan J. Constructing indecomposable motivic cohomology classes on algebraic surfaces. (English summary) **99k:14016**
Saito, Morihiko *see* **Bressler, Paul; et al., 99i:14022**
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Tu, Lihuang Asymptotic Hodge theory in several variables: the flat case. (English summary) **99c:32054**
Usui, Sampei Torelli-type problems. (Japanese) **99d:14008**
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Youssin, Boris *see* **Bressler, Paul; et al., 99i:14022**

14D10 Arithmetic ground fields (finite, local, global)

Items with secondary classifications in 14D10

Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Rational points and zero-cycles on fibred varieties: Schinzel's hypothesis and Salberger's device. **99i:14027**
Denef, Jan (*with* Loeser, François) Germs of arcs on singular algebraic varieties and motivic integration. **99k:14002**
Loeser, François *see* **Denef, Jan, 99k:14002**
Schoen, Chad On the image of the l-adic Abel-Jacobi map for a variety over the algebraic closure of a finite field. **99m:14018**
Skorobogatov, A. N. *see* **Colliot-Thélène, J.-L.; et al., 99i:14027**
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14D15 Formal methods; deformations [see also 13D10, 14B07, 16S80 32Gxx]

Fantechi, Barbara (*with* Manetti, Marco) On the T^1-lifting theorem. **99j:14009**
Kato, Fumiharu Log smooth deformation theory. (English summary) **99a:14012**
— Functors of log Artin rings. (English summary) **99f:14012**
Manetti, Marco *see* **Fantechi, Barbara, 99j:14009**
Rahmati, Farhad Déformation des surfaces projectives toriques. (English, French and Polish summaries) [Deformations of projective toric surfaces] **99e:14006**
Westhoff, Randall F. Computing the infinitesimal invariants associated to deformations of subvarieties. (English summary) **99i:14010**

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Fantechi, Barbara (*with* Manetti, Marco) Obstruction calculus for functors of Artin rings. I. (English summary) **99f:14004**
Green, Barry (*with* Matignon, Michel) Liftings of Galois covers of smooth curves. (English summary) **99k:14045a**
— *see also* **Errata: "Liftings of Galois covers of smooth curves", 99k:14045b**
Gubler, Walter Local heights of subvarieties over non-Archimedean fields. **99j:14022**
Kontsevich, Maxim (*with* Manin, Yuriĭ Ivanovich) Relations between the correlators of the topological sigma-model coupled to gravity. (English summary) **99k:14040**
Li, Jun[1] (*with* Tian, Gang) Virtual moduli cycles and Gromov-Witten invariants of algebraic varieties. **99d:14011**
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Manin, Yuriĭ Ivanovich *see* **Kontsevich, Maxim, 99k:14040**
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14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

Alexeev, Valery Moduli spaces $M_{g,n}(W)$ for surfaces. **99b:14010**
Arinkin, D. (*with* Lysenko, S. A.) On the moduli of SL(2)-bundles with connections on $\mathbf{P}^1 \setminus \{x_1, \cdots, x_4\}$. **99c:14013**
Balaji, V. (*with* Brambila Paz, Leticia; Newstead, Peter E.) Stability of the Poincaré bundle. (English summary) **99a:14013**
Ballico, Edoardo (*with* Russo, Barbara) On the rationality of the moduli schemes of vector bundles on curves. **99a:14014**
— On the birational structure of exceptional irreducible components of moduli schemes of rank 2 vector bundles on algebraic surfaces with negative Kodaira dimension. (English summary) **99c:14014**
— Singular moduli spaces of rank 2 stable vector bundles. **99a:14015**
Beauville, Arnaud The Verlinde formula for PGL_p. **99a:14016**
— (*with* Laszlo, Yves; Sorger, Christoph) The Picard group of the moduli of G-bundles on a curve. (English summary) **99i:14011**
Bertram, Aaron (*with* Feinberg, Burt) On stable rank two bundles with canonical determinant and many sections. **99i:14012**

Biswas, Indranil (*with* Narasimhan, M. S.) Hodge classes of moduli spaces of parabolic bundles over the general curve. **99a:14017**
— Hodge cycles on moduli spaces of parabolic bundles over the general hyperelliptic curve. **99a:14018**
Brambila Paz, Leticia (*with* Muciño-Raymundo, Jesús) Stability of the tangent bundle, endomorphisms and vector fields. (Spanish. Spanish summary) **99i:14013**
— (*with* Lange, Herbert) A stratification of the moduli space of vector bundles on curves. **99e:14007**
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Bridgeland, Tom Fourier-Mukai transforms for elliptic surfaces. (English summary) **99f:14013**
Costa, Laura $K3$ surfaces: moduli spaces and Hilbert schemes. (English summary) **99m:14025**
Donagi, Ron Y. Principal bundles on elliptic fibrations. (English summary) **99d:14010**
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Foth, Philip A. Geometry of moduli spaces of flat bundles on punctured surfaces. (English summary) **99i:14014**
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van Geemen, Bert (*with* de Jong, Aise Johan) On Hitchin's connection. **99c:14015**
Göttsche, Lothar (*with* Hirschowitz, André) Weak Brill-Noether for vector bundles on the projective plane. **99i:14015**
He, Min[3] Espaces de modules de systèmes cohérents. [Moduli spaces of coherent systems] **99i:14016**
Hein, Georg Duality construction of moduli spaces. (English summary) **99m:14027**
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Karpov, B. V. Algebro-geometric aspects of S-duality. (Russian. Russian summary) **99g:14012**
Kilaru, Sambaiah Rational curves on moduli spaces of vector bundles. (English summary) **99m:14028**
Kim, Ho Il Moduli spaces of stable vector bundles on Enriques surfaces. (English summary) **99e:14008**
King, A. D. (*with* Newstead, Peter E.) On the cohomology ring of the moduli space of rank 2 vector bundles on a curve. (English summary) **99a:14019**
Kuleshov, S. A. On the moduli variety of stable bundles on a quadric. (Russian. Russian summary) **99k:14019**
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Laszlo, Yves Linearization of group stack actions and the Picard group of the moduli of SL_r/μ_r-bundles on a curve. (English and French summaries) **99h:14008**
— About G-bundles over elliptic curves. **99c:14016**
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Masuda, Kayo Moduli of equivariant algebraic vector bundles over a product of affine varieties. **99b:14011**
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Mukai, Shigeru Noncommutativizability of Brill-Noether theory and 3-dimensional Fano varieties. (Japanese) **99b:14012**
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— Spin Verlinde spaces and Prym theta functions. **99m:14029**
Pauly, Christian Fibrés paraboliques de rang 2 et fonctions thêta généralisées. [Parabolic bundles of rank 2 and generalized theta functions] **99m:14030**
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Polishchuk, Alexander Poisson structures and birational morphisms associated with bundles on elliptic curves. **99f:14014**
Rapoport, M. Analogien zwischen den Modulräumen von Vektorbündeln und von Flaggen. [Analogies between the moduli spaces of vector bundles and of flags] **99e:14010**
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Schaub, Daniel Courbes spectrales et compactifications de jacobiennes. [Spectral curves and compactifications of Jacobians] **99h:14011**
Schmitt, Alexander Projective moduli for Hitchin pairs. **99e:14011**
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Scognamillo, Renata An elementary approach to the abelianization of the Hitchin system for arbitrary reductive groups. (English summary) **99b:14013**
Sorger, Christoph Le groupe de Picard de la variété des thêta-caractéristiques des courbes planes. [Picard group of the variety of theta-characteristics of plane curves] **99i:14017**
— On moduli of G-bundles of a curve for exceptional G. (English and French summaries) **99m:14031**
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Ballico, Edoardo (*with* Brambila Paz, Leticia; Russo, Barbara) Exact sequence of stable vector bundles on projective curves. (English summary) **99j:14035**
— Rank 2 vector bundles on higher-dimensional projective manifolds. (English summary) **99b:14043**
Bertram, Aaron Stable pairs and log flips. **99e:14019**
Bhosle, Usha N. Orthogonal and symplectic bundles on curves and representations. **99m:14062**
Bismut, Jean-Michel (*with* Labourie, François) Formules de Verlinde pour les groupes simplement connexes et géométrie symplectique. (English and French summaries) [Verlinde formulas for simply connected groups and symplectic geometry] **99e:58032**
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— A criterion for the existence of a parabolic stable bundle of rank two over the projective line. **99m:14063**
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Daskalopoulos, Georgios D. (*with* Wentworth, Richard A.) Geometric quantization for the moduli space of vector bundles with parabolic structure. (English summary) **99k:32033**
Donagi, Ron Y. Seiberg-Witten integrable systems. **99c:58066**
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Friedman, Robert David (*with* Morgan, John W.; Witten, Edward) Vector bundles and F theory. (English summary) **99g:14052**
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Gasbarri, Carlo Hauteurs canoniques sur l'espace de modules des fibrés stables sur une courbe algébrique. (English and French summaries) [Canonical heights on the moduli space of stable bundles over an algebraic curve] **99e:14029**
Gasparim, Elizabeth Rank two bundles on the blow-up of $\mathbf{C}^2$. (English summary) **99a:14063**
Ghalim, Rachid Une involution sur la variété des 2-instantons. [An involution on the manifold of 2-instantons] **99f:14057**
Gieseker, David Geometric invariant theory and the moduli of bundles. **99c:14017**
Göttsche, Lothar (*with* Pandharipande, Rahul) The quantum cohomology of blow-ups of $\mathbf{P}^2$ and enumerative geometry. **99d:14057**
— *see also* **Ellingsrud, Geir**, **99g:57034**
Guruprasad, Krishnamurthi (*with* Nilakantan, Nandini) Mutually dual presentations of the surface group and symplectic structure on the parabolic moduli space. (English summary) **99c:58027**
Harris, Joseph Daniel (*with* Morrison, Ian) ★ Moduli of curves. (English summary) **99g:14031**
Katz, Sheldon H. (*with* Qin, Zhenbo; Ruan, Yongbin) Enumeration of nodal genus-2 plane curves with fixed complex structure. **99d:14058**
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Kirwan, Frances Momentum maps and reduction in algebraic geometry. (English summary) **99e:58072**
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Leung, Nai-Chung Conan Einstein type metrics and stability on vector bundles. **99a:53022**
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Lian, Bong H. (*with* Liu, Kefeng; Yau, Shing-Tung) Mirror principle. I. (English summary) **99e:14062**

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Liu, Kefeng *see* **Lian, Bong H.; et al., 99e:14062** *and* **99k:14088**
Lochak, Pierre The fundamental groups at infinity of the moduli spaces of curves. (English summary) **99c:14037**
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Manin, Yurīĭ Ivanovich *see* **Kontsevich, Maxim, 99k:14040**
Mateos Guilarte, Juan (*with* Muñoz Porras, José María; de la Torre Mayado, Marina) Elliptic theta functions and the fractional quantum Hall effect. (English summary) **99k:14049**
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Simpson, Carlos The Hodge filtration on nonabelian cohomology. **99g:14028**
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Weitsman, Jonathan Geometry of the intersection ring of the moduli space of flat connections and the conjectures of Newstead and Witten. (English summary) **99m:57030**
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14D22 Fine and coarse moduli spaces

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Hein, Georg Duality construction of moduli spaces. (English summary) **99m:14027**
Masuda, Kayo Moduli of equivariant algebraic vector bundles over a product of affine varieties. **99b:14011**
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14D25 Geometric invariants [see also 14L30]

Gieseker, David Geometric invariant theory and the moduli of bundles. **99c:14017**
Hille, Lutz Toric quiver varieties. (English summary) **99h:14012**
Teixidor i Bigas, Montserrat Hilbert stability versus slope stability for vector bundles of rank two. **99k:14024**
Wall, C. T. C. Pencils of binary quartics. **99k:14025**

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van den Bergh, Michel *see* **Musson, Ian M., 99i:16051**
Białynicki-Birula, A. Finiteness of the number of maximal open subsets with good quotients. (English summary) **99m:14089**
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Drézet, Jean-Marc Quotients algébriques par des groupes non réductifs et variétés de modules de complexes. [Algebraic quotients by nonreductive groups and moduli varieties of complexes] **99m:14026**
Greuel, Gert-Martin (*with* Pfister, Gerhard) Geometric quotients of unipotent group actions. II. **99k:14078**
Grosshans, Frank D. Invariant theory, orbits and non-decomposable quadruples of subspaces having non-zero defect. (English summary) **99h:14047**
Hein, Georg Duality construction of moduli spaces. (English summary) **99m:14027**
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Musson, Ian M. (*with* van den Bergh, Michel) Invariants under tori of rings of differential operators and related topics. (English summary) **99i:16051**
Nakajima, Hiraku Quiver varieties and Kac-Moody algebras. **99b:17033**
Nakamura, Iku Compactification of the moduli of abelian varieties over $\mathbf{Z}[\zeta_N, 1/N]$. (English and French summaries) **99k:14075**
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Popov, Vladimir Leonidovich On the closure of some orbits of algebraic groups. (Russian) **99d:14050**
Vainstein, F. S. (*with* Osetinskiĭ, N. I.) Classification of systems under state and output transformations. **99f:93031**

14D99 None of the above, but in this section

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Procesi, Claudio Complements of subspaces and conical singularities. (Italian. English and Italian summaries) **99a:32024**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Chen, Meng A note on pluricanonical maps for varieties of dimension 4 and 5. **99e:14014**
— On pluricanonical maps for threefolds of general type. **99f:14015**
Chevalley, Claude La notion de correspondance propre en géométrie algébrique [MR **21** #7211]. [The notion of proper correspondence in algebraic geometry] (*see* **99f:00036**)
Cutkosky, Steven Dale Local factorization of birational maps. **99c:14018**
Gauthier, Luc Théorie des correspondances birationnelles selon Zariski. [The theory of birational correspondences according to Zariski] (*see* **99f:00033**)
Grinenko, M. M. Birational automorphisms of a three-dimensional dual quadric with the simplest singularity. (Russian. Russian summary) **99a:14021**
Mori, Shigefumi Birational classification of algebraic threefolds [MR 93b:14031]. (*see* **99b:00010**)
Pukhlikov, Aleksandr V. Birational automorphisms of higher-dimensional algebraic varieties. (English summary) **99k:14026**
— Birational automorphisms of three-dimensional algebraic varieties with a pencil of del Pezzo surfaces. (Russian. Russian summary) **99f:14016**
Samuel, Pierre La théorie des correspondances birationnelles selon Zariski. [The theory of birational correspondences according to Zariski] (*see* **99f:00033**)
Tang, Li Zhong[2] A Gröbner basis criterion for birational equivalence of affine varieties. (English summary) **99a:14022**
Tsai, I-Hsun Chow varieties and finiteness theorems for dominant maps. **99f:14017**
Viallet, Claude M. Invariants of rational transformations and algebraic entropy. (English summary) **99k:14027**

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Abramovich, D. (*with* de Jong, Aise Johan) Smoothness, semistability, and toroidal geometry. **99b:14016**
Andreatta, Marco (*with* Wiśniewski, Jarosław A.) Contractions of smooth varieties. II. Computations and applications. (Italian summary) **99f:14021b**
— (*with* Wiśniewski, Jarosław A.) On contractions of smooth varieties. (English summary) **99f:14021a**
Bertram, Aaron Stable pairs and log flips. **99e:14019**
Brumatti, Paulo (*with* Gimenez, Philippe; Simis, Aron) On the Gauss algebra associated to a rational map $\mathbf{P}^d \to \mathbf{P}^n$. (English summary) **99h:14053**
Campillo, Antonio (*with* González-Sprinberg, Gérard) On characteristic cones, clusters and chains of infinitely near points. **99i:14019**
Chen, Meng A theorem on pluricanonical maps of nonsingular minimal threefolds of general type. (English summary) **99m:14071**
— (*with* Chen, Zhijie) Irregularity of canonical pencils for a threefold of general type. **99g:14047**
Chen, Xi[2] Unirationality of Fano varieties. **99b:14039**
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Chernousov, Vladimir I. (*with* Merkur'ev, A. S.) R-equivalence and special unitary groups. (English summary) **99m:20101**
Fujita, Takao An appendix to T. Kawachi-V. Maşek's paper on global generation of adjoint bundles on normal surfaces: "Reider-type theorems on normal surfaces" [J. Algebraic Geom. **7** (1998), no. 2, 239–249; MR 99f:14040]. **99f:14041**
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González-Sprinberg, Gérard *see* **Campillo, Antonio, 99i:14019**
Grinenko, M. M. Birational automorphisms of a three-dimensional double cone. (Russian. Russian summary) **99i:14018**
Hara, Nobuo A characterization of rational singularities in terms of injectivity of Frobenius maps. (English summary) **99h:13005**
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de Jong, Aise Johan *see* **Abramovich, D., 99b:14016**
Kawachi, Takeshi (*with* Maşek, Vladimir) Reider-type theorems on normal surfaces. (English summary) **99f:14040**
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Langlands, Robert P. (*with* Saint-Aubin, Yvan) Aspects combinatoires des équations de Bethe. [Combinatorial aspects of the Bethe equations] **99h:32025**
Luo, Tie Divisorial extremal contractions of threefolds: divisor to point. (English summary) **99f:14051**
Maşek, Vladimir *see* **Kawachi, Takeshi, 99f:14040** *and* **Fujita, Takao, 99f:14041**
Matsushita, Daisuke On smooth 4-fold flops. (English summary) **99h:14038**
Merkur'ev, A. S. *see* **Chernousov, Vladimir I., 99m:20101**
Morelli, Robert The birational geometry of toric varieties. (English summary) **99b:14056**
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Rojas, Jacqueline Fabiola (*with* Vainsencher, Israel) Conical sextuplets. (English summary) **99c:14003**
Saint-Aubin, Yvan *see* **Langlands, Robert P., 99h:32025**
Sekiguchi, Jiro (*with* Takayama, Nobuki) Compactifications of the configuration space of six points of the projective plane and fundamental solutions of the hypergeometric system of type (3, 6). (English summary) **99b:14057**
Simis, Aron (*with* Ngô Việt Trung; Valla, Giuseppe) The diagonal subalgebra of a blow-up algebra. (English summary) **99b:13004**
— *see also* **Brumatti, Paulo; et al., 99h:14053**
Takahashi, Nobuyoshi An application of Noether-Fano inequalities. **99d:14041**
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Voskresenskiĭ, V. E. Birational geometry of linear algebraic groups and Galois modules. **99j:14047**
Wiśniewski, Jarosław A. *see* **Andreatta, Marco, 99f:14021a** *and* **99f:14021b**

14E07 Birational automorphisms, Cremona group and generalizations [see also 32G20]

Grinenko, M. M. Birational automorphisms of a three-dimensional double cone. (Russian. Russian summary) **99i:14018**
Lamy, Stéphane L'alternative de Tits pour Aut[$\mathbf{C}^2$]. (English and French summaries) [The Tits alternative for Aut[$\mathbf{C}^2$]] **99j:14012**
Vologodskiĭ, V. N. On the factorization of some classical three-dimensional Cremona transformations in the framework of the Sarkisov program. (Russian. Russian summary) **99c:14019**

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Chamberland, Marc (*with* Meisters, Gary) A mountain pass to the Jacobian conjecture. (English summary) **99m:58044**
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Pukhlikov, Aleksandr V. Birational automorphisms of Fano hypersurfaces. **99i:14046**
Rerikh, K. V. Nonalgebraic integrability of one reversible dynamical system of the Cremona type. (English summary) **99c:58134**
Veys, Willem Structure of rational open surfaces with non-positive Euler characteristic. **99i:14039**

14E09 Automorphisms [see also 14J50, 14L27]

Chang, Hai-chau (*with* Wang, Lih-chung) On group structure associated to Jacobian pairs with mixed leading forms. (English summary) **99d:14012**
van den Essen, Arno Polynomial automorphisms and the Jacobian conjecture. (English and French summaries) **99b:14015**
Fornæss, John Erik (*with* Wu, He) Classification of degree 2 polynomial automorphisms of $\mathbf{C}^3$. (English summary) **99e:14015**
Furter, Jean-Philippe On the degree of the inverse of an automorphism of the affine space. (English summary) **99g:14015**
Gorni, Gianluca (*with* Zampieri, Gaetano) On cubic-linear polynomial mappings. (English summary) **99e:14016**
Ivanenko, Nazar Some classes of linearizable polynomial maps. (English summary) **99a:14023**
Neumann, Walter D. (*with* Norbury, Paul) Nontrivial rational polynomials in two variables have reducible fibres. (English summary) **99j:14013**
Norbury, Paul *see* **Neumann, Walter D., 99j:14013**
Ossowski, Piotr A counterexample to a conjecture of Bass, Connell and Wright. **99h:14013**
Wang, Lih-chung *see* **Chang, Hai-chau, 99d:14012**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Structure of a class of polynomial maps with invariant factors. **99c:14020**
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Wu, He *see* **Fornæss, John Erik, 99e:14015**
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Chen, Yu Qing A note on holomorphic maps with unipotent Jacobian matrices. (English summary) **99j:32026**
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Kontogeorgis, Aristides I. The group of automorphisms of the function fields of the curve $x^n + y^m + 1 = 0$. (English summary) **99f:11074**
Morifuji, Takayuki A note on the reducibility of automorphisms of the Klein curve and the η-invariant of mapping tori. (English summary) **99g:14039**
Müller, Gerd *see* **Hauser, Herwig, 99g:17045**
Peretz, Ronen The geometry of the asymptotics of polynomial maps. (English summary) **99f:14022**
Rajan, C. S. Automorphisms of $X(11)$ over characteristic 3 and the Mathieu group M_{11}. (English summary) **99f:14027**
Sabatini, M. A connection between isochronous Hamiltonian centres and the Jacobian conjecture. **99e:34033**
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14E10 General correspondences

Items with secondary classifications in 14E10

Laterveer, Robert Algebraic varieties with small Chow groups. **99k:14013**
Mochizuki, Shinichi Correspondences on hyperbolic curves. (English summary) **99g:14036**

14E15 Global theory of singularities, resolution [see also 14B05, 32S20, 32S45]

Abhyankar, S. S. ★ Resolution of singularities of embedded algebraic surfaces. (English summary) **99c:14021**
Abramovich, D. (*with* de Jong, Aise Johan) Smoothness, semistability, and toroidal geometry. **99b:14016**
Campillo, Antonio (*with* González-Sprinberg, Gérard) On characteristic cones, clusters and chains of infinitely near points. **99i:14019**
Encinas, S. (*with* Villamayor U., Orlando E.) Good points and constructive resolution of singularities. **99i:14020**
Giraud, Jean Résolution des singularités (d'après Heisuke Hironaka). [Resolution of singularities (after Heisuke Hironaka)] (*see* **99f:00042**)
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Göttsche, Lothar Orbifold-Hodge numbers of Hilbert schemes. **99c:14022**
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Ishii, Shihoko Minimal, canonical and log-canonical models of hypersurface singularities. (English summary) **99f:14018**
Ito, Yukari The world of rational Gorenstein singularities. (*see* **99h:32002**)
de Jong, Aise Johan *see* **Abramovich, D., 99b:14016**
Oort, Frans Alterations can remove singularities. **99i:14021**
Urabe, Tohsuke On weak Hironaka theorem. II. (Japanese) (*see* **99j:58003**)
Veys, Willem More congruences for numerical data of an embedded resolution. (English summary) **99e:14017**
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Altmann, Klaus P-resolutions of cyclic quotients from the toric viewpoint. **99i:14062**
Berkner, Kathrin Resolution of singularities of convolutions with the Gaussian kernel. (English summary) **99c:44007**
Cassens, Heiko (*with* Slodowy, Peter) On Kleinian singularities and quivers. **99k:14003**
Essouabri, Driss Singularité des séries de Dirichlet associées à des polynômes de plusieurs variables et applications en théorie analytique des nombres. (English summary) [Singularity of the Dirichlet series associated with multivariate polynomials and applications in analytic number theory] **99d:11098**
González-Sprinberg, Gérard (*with* Lejeune-Jalabert, Monique) Families of smooth curves on surface singularities and wedges. (English summary) **99c:14002**
Kollár, János Singularities of pairs. **99m:14033**
Lejeune-Jalabert, Monique *see* **González-Sprinberg, Gérard, 99c:14002**
Mašek, Vladimír Kawachi's invariant for normal surface singularities. (English summary) **99k:14057**
Nakajima, Hiraku Gauge theory on resolutions of simple singularities and affine Lie algebras. **99c:32056**
Slodowy, Peter *see* **Cassens, Heiko, 99k:14003**

14E20 Coverings, fundamental group (mappings)

Bogomolov, Fedor A. (*with* Katzarkov, Ludmil) Complex projective surfaces and infinite groups. **99m:14032**
Campana, Frédéric Negativity of compact curves in infinite covers of projective surfaces. **99h:14014**
(Faltings, Gerd) *see* **Grothendieck, Alexander, 99c:14023**
Grothendieck, Alexander Brief an G. Faltings. [Letter to G. Faltings] **99c:14023**
— *see also* **Schneps, Leila, 99b:14017**
Hahn, David W. (*with* Miranda, Rick) Quadruple covers of algebraic varieties. (English summary) **99k:14028**
Kasparian, Azniv When does a bounded domain cover a projective manifold? (Survey). (English summary) **99f:14019**
Katzarkov, Ludmil (*with* Ramachandran, Mohan) On the universal coverings of algebraic surfaces. (English and French summaries) **99h:14015**
— *see also* **Bogomolov, Fedor A., 99m:14032**
Miranda, Rick *see* **Hahn, David W., 99k:14028**
Oort, Frans The algebraic fundamental group. **99c:14024**
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Schneps, Leila Grothendieck's "Long march through Galois theory". **99b:14017**
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— Fundamental groups of complements to hypersurfaces. **99k:14029**
Takayama, Shigeharu Nonvanishing theorems on an algebraic variety with large fundamental group. **99k:14030**

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Correspondence:
Grothendieck, Alexander–Faltings, Gerd *see* **Grothendieck, Alexander, 99c:14023**

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Hain, Richard M. The Hodge de Rham theory of relative Malcev completion. (English and French summaries) **99f:14009**
Keel, Seán (*with* McKernan, James) Rational curves on quasi-projective surfaces. (English summary) **99m:14068**
Kim, Meeyoung (*with* Sommese, Andrew J.) Two results on branched coverings of Grassmannians. **99e:14059**
McKernan, James *see* **Keel, Seán, 99m:14068**
Saïdi, Mohamed p-rank and semi-stable reduction of curves. (English and French summaries) **99j:14029**
Serre, Jean-Pierre Théorie du corps de classes pour les revêtements non ramifiés de variétés algébriques (d'après S. Lang). [Theory of class fields for nonramified coverings of algebraic varieties (after S. Lang)] (*see* **99f:00035**)
Sommese, Andrew J. *see* **Kim, Meeyoung, 99e:14059**

Stevenson, Katherine F. Conditions related to π_1 of projective curves. **99f:14032**
Supino, Paola Triple covers of 3-folds as canonical maps. (English summary) **99d:14034**
Tamagawa, Akio The Grothendieck conjecture for affine curves. (English summary) **99a:14035**
Tokunaga, Hiro-o Some examples of Zariski pairs arising from certain elliptic $K3$ surfaces. **99a:14055**

14E22 Ramification problems [see also 11S15]

Flenner, Hubert (*with* Manaresi, Mirella) Variation of ramification loci of generic projections. (English summary) **99j:14015**
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Green, Barry (*with* Matignon, Michel) Liftings of Galois covers of smooth curves. (English summary) **99k:14045a**
— *see also* **Errata: "Liftings of Galois covers of smooth curves"**, **99k:14045b**
Hahn, David W. (*with* Miranda, Rick) Quadruple covers of algebraic varieties. (English summary) **99k:14028**
Matignon, Michel *see* **Green, Barry**, **99k:14045a** *and* **Errata: "Liftings of Galois covers of smooth curves"**, **99k:14045b**
Miranda, Rick *see* **Hahn, David W.**, **99k:14028**
Pawełczyk, Jacek String picture of gauge fields. (English summary) **99k:81187**

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"Liftings of Galois covers of smooth curves" Errata: "Liftings of Galois covers of smooth curves" [Compositio Math. **113** (1998), no. 3, 237–272; MR 99k:14045a] by B. Green and M. Matignon. **99k:14045b**

14E25 Imbeddings

Items with secondary classifications in 14E25

Akahori, Katsumi Classification of projective surfaces and projective normality. **99h:14040**
Arrondo, Enrique Projections of Grassmannians of lines and characterization of Veronese varieties. (English summary) **99k:14083**
Takahashi, Kazuyoshi (*with* Terakawa, Hiroyuki) Generalized adjunction of k-very ample vector bundles on algebraic surfaces. (English summary) **99g:14053**
Terakawa, Hiroyuki *see* **Takahashi, Kazuyoshi**, **99g:14053**
Yoshihara, Hisao A note on the inequality of degrees of irrationalities of algebraic surfaces. **99k:14058**

14E30 Minimal models

Andreatta, Marco (*with* Wiśniewski, Jarosław A.) A view on contractions of higher-dimensional varieties. **99f:14020**
— (*with* Wiśniewski, Jarosław A.) Contractions of smooth varieties. II. Computations and applications. (Italian summary) **99f:14021b**
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Benveniste, Xavier On the flip theorem for locally primitive extremal rays in dimension 3. (English summary) **99j:14016**
Bertram, Aaron Stable pairs and log flips. **99e:14019**
Kachi, Yasuyuki Flips of semi-stable 4-folds whose degenerate fibers are unions of Cartier divisors which are terminal factorial 3-folds. (English summary) **99d:14013**
— Flips from 4-folds with isolated complete intersection singularities. (English summary) **99c:14025**
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Kollár, János Singularities of pairs. **99m:14033**
Mella, Massimiliano Extremal contractions and n-dimensional geometry. (Italian)
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Takagi, Hiromichi Remarks on Gorenstein terminal fourfold flips. (English summary) **99d:14014**
— Classification of extremal contractions from smooth fourfolds of (3, 1)-type. (English summary) **99h:14016**
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— (*with* Chen, Zhijie) Irregularity of canonical pencils for a threefold of general type. **99g:14047**
Chen, Zhijie *see* **Chen, Meng**, **99g:14047**
Fujisawa, Taro Polarized threefolds with non-zero effective anti-adjoint divisors. **99a:14061**
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Keel, Seán (*with* McKernan, James) Rational curves on quasi-projective surfaces. (English summary) **99m:14068**
Luo, Tie Divisorial extremal contractions of threefolds: divisor to point. (English summary) **99f:14051**
Matsushita, Daisuke On smooth 4-fold flops. (English summary) **99b:14038**
McKernan, James *see* **Keel, Seán**, **99m:14068**
Oguiso, Keiji Calabi-Yau threefolds of quasi-product type. (English summary) **99a:14057**
Prokhorov, Yu. G. On the complementability of the canonical divisor for Mori fibrations on conics. (Russian. Russian summary) **99b:14036**
Wilson, P. M. H. The existence of elliptic fibre space structures on Calabi-Yau threefolds. II. **99f:14053**

14E35 Results in dimension ≤ 3

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Grinenko, M. M. Birational automorphisms of a three-dimensional dual quadric with the simplest singularity. (Russian. Russian summary) **99a:14021**
— Birational automorphisms of a three-dimensional double cone. (Russian. Russian summary) **99i:14018**
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14E40 Local structure of maps: étale, flat, etc. [see also 13–XX, 14F20]

Kwieciński, Michał A complex map with complex topology. (English summary) **99c:14026**
Peretz, Ronen The geometry of the asymptotics of polynomial maps. (English summary) **99f:14022**

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Avramov, Luchezar L. (*with* Foxby, Hans-Bjørn) Cohen-Macaulay properties of ring homomorphisms. (English summary) **99c:13043**
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Nakayama, Chikara Nearby cycles for log smooth families. (English summary) **99g:14044**
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14E99 None of the above, but in this section

Chevalley, Claude La théorie des fonctions holomorphes de Zariski. Application au théorème de connexité [MR **21** #7212]. [Zariski's theory of holomorphic functions. Applications to the connectivity theorem] (*see* **99f:00036**)
Kwieciński, Michał Flatness and fibred powers. (English summary) **99h:14017**
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Samuel, Pierre Les fonctions holomorphes abstraites de Zariski. [The abstract holomorphic functions of Zariski] (*see* **99f:00034**)

Items with secondary classifications in 14E99

Samuel, Pierre Travaux de Zariski sur le 14e problème de Hilbert. [Works of Zariski on Hilbert's fourteenth problem] (*see* **99f:00034**)

14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related construction [see also 18F20, 32Lxx, 46M20]

Kuleshov, S. A. Exceptional and rigid sheaves on surfaces with anticanonical class without base components. (English summary) **99c:14028**
Lehn, Manfred On the cotangent sheaf of Quot-schemes. (English summary) **99h:14018**
Serre, Jean-Pierre Espaces fibrés algébriques (d'après André Weil). [Algebraic fiber spaces (after André Weil)] (*see* **99f:00034**)

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Littelmann, Peter The path model, the quantum Frobenius map and standard monomial theory. **99m:20096**
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Polishchuk, Alexander (*with* Zaslow, Eric) Categorical mirror symmetry: the elliptic curve. (English summary) **99j:14034**
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14F10 Differentials and other special sheaves [see also 32C38]

Biswas, Indranil Differential operators on complex manifolds with a flat projective structure. (English summary) **99m:14034**

Bocharov, A. V. On Spencer cohomologies of affine algebraic varieties. (English summary) **99e:14020**
Brückmann, Peter (*with* Müller, Dirk) Birational invariants in the case of prime characteristic. (English summary) **99f:14023**
Huang, I-Chiau Reversion of power series by residues. (English summary) **99g:14017**
Hübl, R. (*with* Kunz, Ernst) On the intersection of algebraic curves and hypersurfaces. **99h:14019**
Kaneda, Masaharu Some generalities on $\mathscr{D}$-modules in positive characteristic. (English summary) **99g:14018**
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Oaku, Toshinori (*with* Takayama, Nobuki) Integrals of modules and their applications. (Japanese) (*see* **99h:00034**)
Takayama, Nobuki *see* **Oaku, Toshinori, (99h:00034)**

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Beyer, Peter Zur Serre-Dualität für kohärente Garben auf rigid-analytischen Räumen. [On Serre duality for coherent sheaves on rigid-analytic spaces] **99d:32009**
Cortiñas, Guillermo (*with* Geller, Susan C.; Weibel, Charles A.) The Artinian Berger conjecture. **99g:13035**
Denef, Jan (*with* Jacobs, Philippe) On the vanishing of principal value integrals. (English and French summaries) **99h:11137**
Geller, Susan C. *see* **Cortiñas, Guillermo; et al., 99g:13035**
Gyoja, Akihiko Theory of prehomogeneous vector spaces. II. A supplement. **99a:32010**
Henkin, Gennadi (*with* Passare, Mikael) Abelian differentials on singular varieties and variations on a theorem of Lie-Griffiths. (English summary) **99m:32038**
Jacobs, Philippe *see* **Denef, Jan, 99h:11137**
Keum, J. H. (*with* Lee, Man Keun) A basis of the space of meromorphic quadratic differentials on Riemann surfaces. (English summary) **99a:14042**
Laksov, Dan (*with* Thorup, Anders) These are the differentials of order n. (English summary) **99f:13026**
Lee, Man Keun *see* **Keum, J. H., 99a:14042**
Marastoni, Corrado Grassmann duality for $\mathscr{D}$-modules. (English and French summaries) **99i:14060**
Mourrain, Bernard (*with* Pan, Victor Y.) Solving special polynomial systems by using structured matrices and algebraic residues. (English summary) **99k:65048**
Oaku, Toshinori Algorithms for b-functions, restrictions, and algebraic local cohomology groups of D-modules. **99a:32011**
Pan, Victor Y. *see* **Mourrain, Bernard, 99k:65048**
Passare, Mikael *see* **Henkin, Gennadi, 99m:32038**
Thorup, Anders *see* **Laksov, Dan, 99f:13026**
Weibel, Charles A. *see* **Cortiñas, Guillermo; et al., 99g:13035**
Yekutieli, Amnon Smooth formal embeddings and the residue complex. (English summary) **99i:14004**
— Residues and differential operators on schemes. **99j:14019**

14F17 Vanishing theorems [see also 32L20]

Cho, Koji A generalization of Kita and Noumi's vanishing theorems of cohomology groups of local system. (English summary) **99a:14025**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Théorèmes d'annulation pour les faisceaux algébriquement constructibles. (English and French summaries) [Vanishing theorems for algebraically constructible sheaves] **99m:14035**
Lê Dũng Tráng *see* **Hamm, Helmut A., 99m:14035**
Nagel, Jan Effective bounds for Nori's connectivity theorem. (English and French summaries) **99e:14021**
Smith, Karen E. Vanishing, singularities and effective bounds via prime characteristic local algebra. **99a:14026**
Terakawa, Hiroyuki On the Kawamata-Viehweg vanishing theorem for a surface in positive characteristic. (English summary) **99k:14031**

Items with secondary classifications in 14F17

Biswas, Indranil (*with* Nagaraj, D. S.) Parabolic ample bundles. II. Connectivity of zero locus of a class of sections. **99e:14047**
Brion, Michel Curves and divisors in spherical varieties. **99f:14006**
Broer, Abraham A vanishing theorem for Dolbeault cohomology of homogeneous vector bundles. (English summary) **99e:32052**
Demailly, Jean-Pierre L^2 vanishing theorems for positive line bundles and adjunction theory. **99k:32051**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Vanishing theorems for constructible sheaves. II. **99k:32052**
Kawamata, Yūjirō Deformations of canonical singularities. (English summary) **99g:14003**
Lê Dũng Tráng *see* **Hamm, Helmut A., 99k:32052**
Nagaraj, D. S. *see* **Biswas, Indranil, 99e:14047**
Schlesinger, Enrico A speciality theorem for Cohen-Macaulay space curves. (English summary) **99j:14033**
Takayama, Shigeharu Nonvanishing theorems on an algebraic variety with large fundamental group. **99k:14030**
Wahl, Jonathan On cohomology of the square of an ideal sheaf. (English summary) **99b:14046**

14F20 Étale and other Grothendieck topologies and cohomologies

(Berthelot, P.) *see* **Huyghe, C., 99c:14031**
Bombosch, Uwe Der Zariski-Riemann-Raum und die étale Kohomologie rigider Räume. [The Zariski-Riemann space and the étale cohomology of rigid spaces] **99c:14029**
Chiarellotto, Bruno Weights in rigid cohomology applications to unipotent F-isocrystals. (English and French summaries) **99k:14032**
Fujiwara, Kazuhiro Rigid geometry, Lefschetz-Verdier trace formula and Deligne's conjecture. **99c:14030**
Grothendieck, Alexander Théorèmes de dualité pour les faisceaux algébriques cohérents. [Duality theorems for coherent algebraic sheaves] (*see* **99f:00036**)
Huber, Roland A comparison theorem for l-adic cohomology. (English summary) **99k:14033**
— A finiteness result for the compactly supported cohomology of rigid analytic varieties. **99h:14020**
— A finiteness result for direct image sheaves on the étale site of rigid analytic varieties. **99h:14021**
Huyghe, C. $\mathscr{D}^\dagger$-affinité de l'espace projectif. (English summary) [$\mathscr{D}^\dagger$-affineness of projective space] **99c:14031**
Matsuda, Shigeki On the Swan conductor in positive characteristic. (English summary) **99h:14022**
Raynaud, Michel Caractéristique d'Euler-Poincaré d'un faisceau et cohomologie des variétés abéliennes. [Euler-Poincaré characteristic of a sheaf and cohomology of abelian varieties] (*see* **99f:00041**)
Saito, Takeshi Determinant of l-adic cohomology. **99g:14019**
Walker, Mark E. The primitive topology of a scheme. (English summary) **99b:14019**

Items with secondary classifications in 14F20

Berkovich, Vladimir G. p-adic analytic spaces. (English summary) **99h:14026**
Black, Elena V. Arithmetic lifting of dihedral extensions. **99a:12006**
Bloch, Spencer Lectures on mixed motives. **99g:11073**
Breuil, Christophe Construction de représentations p-adiques semi-stables. (English and French summaries) [Construction of semistable p-adic representations] **99k:14034**
— Cohomologie étale de p-torsion et cohomologie cristalline en réduction semi-stable. [p-torsion étale cohomology and crystalline cohomology in semistable reduction] **99m:14036**
Cortiñas, Guillermo Infinitesimal K-theory. **99j:19004**
Denef, Jan (*with* Loeser, François) Motivic Igusa zeta functions. **99j:14021**
Faltings, Gerd Crystalline cohomology of semistable curve—the $\mathbf{Q}_p$-theory. **99k:14035**
— Integral crystalline cohomology over very ramified valuation rings. (English summary) **99e:14022**
Flicker, Yuval Z. (*with* Scheiderer, Claus; Sujatha, R.) Grothendieck's theorem on non-abelian H^2 and local-global principles. (English summary) **99a:11129**
Grothendieck, Alexander Esquisse d'un programme. (French summary) [Sketch of a program] **99c:14034**
de Jong, Aise Johan Barsotti-Tate groups and crystals. **99i:14051**
Loeser, François *see* **Denef, Jan, 99j:14021**
Maeda, Takashi[1] Intermediate Jacobians of projective plane bundles over a smooth projective surface. (English summary) **99e:14055**
Scheiderer, Claus *see* **Flicker, Yuval Z.; et al., 99a:11129**
Shiho, Atsushi On crystalline fundamental groups. **99i:14023**
Sujatha, R. *see* **Flicker, Yuval Z.; et al., 99a:11129**
Tsuji, Takeshi On p-adic Hodge theory. (Japanese) **99k:14037**
Wintenberger, Jean-Pierre Propriétés du groupe tannakien des structures de Hodge p-adiques et torseur entre cohomologies cristalline et étale. (English and French summaries) [Properties of the Tannakian group of p-adic Hodge structures and torsor between crystalline cohomology and étale cohomology] **99g:14022**
Yekutieli, Amnon Smooth formal embeddings and the residue complex. (English summary) **99i:14004**

14F25 Classical real and complex cohomology

Dimca, Alexandru (*with* Lehrer, G. I.) Purity and equivariant weight polynomials. **99h:14023**
Lehrer, G. I. *see* **Dimca, Alexandru, 99h:14023**

Items with secondary classifications in 14F25

Biswas, Indranil (*with* Narasimhan, M. S.) Hodge classes of moduli spaces of parabolic bundles over the general curve. **99a:14017**
— Hodge cycles on moduli spaces of parabolic bundles over the general hyperelliptic curve. **99a:14018**
Brasselet, Jean-Paul Geometry of toric varieties. **99a:14077**
Cornalba, Maurizio Cohomology of moduli spaces of stable curves. (English summary) **99i:14031**
Gaiffi, Giovanni Blowups and cohomology bases for De Concini-Procesi models of subspace arrangements. **99d:52009**
Goresky, Mark (*with* Kottwitz, Robert E.; MacPherson, Robert D.) Equivariant cohomology, Koszul duality, and the localization theorem. **99c:55009**
Harris, Michael (*with* Li, Jian-Shu) A Lefschetz property for subvarieties of Shimura varieties. (English summary) **99e:14027**
King, A. D. (*with* Newstead, Peter E.) On the cohomology ring of the moduli space of rank 2 vector bundles on a curve. (English summary) **99a:14019**
Kottwitz, Robert E. *see* **Goresky, Mark; et al., 99c:55009**
Li, Jian-Shu *see* **Harris, Michael, 99e:14027**
MacPherson, Robert D. *see* **Goresky, Mark; et al., 99c:55009**
Maeda, Takashi[1] Intermediate Jacobians of projective plane bundles over a smooth projective surface. (English summary) **99e:14055**
Narasimhan, M. S. *see* **Biswas, Indranil, 99a:14017**
Newstead, Peter E. *see* **King, A. D., 99a:14019**

14F30 p-adic cohomology, crystalline cohomology

Breuil, Christophe Construction de représentations p-adiques semi-stables. (English and French summaries) [Construction of semistable p-adic representations] **99k:14034**
— Cohomologie étale de p-torsion et cohomologie cristalline en réduction semi-stable. [p-torsion étale cohomology and crystalline cohomology in semistable reduction] **99m:14036**
Chiarellotto, Bruno (*with* Le Stum, Bernard) Sur la pureté de la cohomologie cristalline. (English and French summaries) [On the purity of crystalline cohomology] **99f:14024**

Faltings, Gerd Crystalline cohomology of semistable curve—the $\mathbf{Q}_p$-theory. **99k:14035**
— Integral crystalline cohomology over very ramified valuation rings. (English summary) **99e:14022**
Kato, Kazuya Logarithmic structures of Fontaine-Illusie. **99b:14020**
Le Stum, Bernard *see* **Chiarellotto, Bruno, 99f:14024**
Mebkhout, Zoghman Sur le théorème de finitude de la cohomologie p-adique d'une variété affine non singulière. (French summary) [On the finiteness theorem for the p-adic cohomology of a nonsingular affine variety] **99a:14027**
Trihan, Fabien Fonction L unité d'un groupe de Barsotti-Tate. (English summary) [Unit L-function of a Barsotti-Tate group] **99k:14036**
Tsuji, Takeshi p-adic Hodge theory in the semi-stable reduction case. (English summary) **99g:14020**
— On p-adic Hodge theory. (Japanese) **99k:14037**
Tsuzuki, Nobuo Finite local monodromy of overconvergent unit-root F-isocrystals on a curve. (English summary) **99k:14038**
— Slope filtration of quasi-unipotent overconvergent F-isocrystals. (English summary) **99e:14023**
— The local index and the Swan conductor. (English summary) **99g:14021**
Wintenberger, Jean-Pierre Propriétés du groupe tannakien des structures de Hodge p-adiques et torseur entre cohomologies cristalline et étale. (English and French summaries) [Properties of the Tannakian group of p-adic Hodge structures and torsor between crystalline cohomology and étale cohomology] **99g:14022**

Items with secondary classifications in 14F30

(Berthelot, P.) *see* **Huyghe, C., 99c:14031**
Carpentier, Michel Sommes de Kloosterman généralisées: l'équation fonctionnelle. [Generalized Kloosterman sums: the functional equation] **99a:11097**
Chiarellotto, Bruno Weights in rigid cohomology applications to unipotent F-isocrystals. (English and French summaries) **99k:14032**
Christol, G. (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. II. [On the index theorem for p-adic differential equations. II] **99a:12009**
Douai, Jean-Claude Prolongement d'une suite exacte de Kottwitz. (English and French summaries) [Extension of a Kottwitz exact sequence] **99b:11037**
Fontaine, Jean-Marc Deforming semistable Galois representations. (English summary) **99a:11064**
Huyghe, C. $\mathscr{D}^\dagger$-affinité de l'espace projectif. (English summary) [$\mathscr{D}^\dagger$-affineness of projective space] **99c:14031**
de Jong, Aise Johan Barsotti-Tate groups and crystals. **99i:14051**
— Erratum to: "Crystalline Dieudonné module theory via formal and rigid geometry" [Inst. Hautes Études Sci. Publ. Math. No. **82** (1995), 5–96 (1996); MR 97f:14047]. **99i:14050**
Kottwitz, Robert E. Isocrystals with additional structure. II. (English summary) **99e:20061**
Matsuda, Shigeki On the Swan conductor in positive characteristic. (English summary) **99h:14022**
Mebkhout, Zoghman *see* **Christol, G., 99a:12009**
Saito, Takeshi Automorphic forms and p-adic Hodge theory. (Japanese) (*see* **99a:11003**)
Shiho, Atsushi On crystalline fundamental groups. **99i:14023**

14F32 Intersection (co)homology [see also 32S60]

Bressler, Paul (*with* Saito, Morihiko; Youssin, Boris) Filtered perverse complexes. (English summary) **99i:14022**
Saito, Morihiko *see* **Bressler, Paul; et al., 99i:14022**
Youssin, Boris *see* **Bressler, Paul; et al., 99i:14022**

Items with secondary classifications in 14F32

Brasselet, Jean-Paul Geometry of toric varieties. **99a:14077**
— Classes caractéristiques et nombres caractéristiques des ensembles analytiques complexes: un bilan. [On characteristic classes and characteristic numbers of complex analytic fields] **99c:32057**
Bressler, Paul (*with* Brylinski, Jean-Luc) On the singularities of theta divisors on Jacobians. **99i:14034**
Brylinski, Jean-Luc *see* **Bressler, Paul, 99i:14034**
Goresky, Mark (*with* Kottwitz, Robert E.; MacPherson, Robert D.) Equivariant cohomology, Koszul duality, and the localization theorem. **99c:55009**
Gyoja, Akihiko Character sums and intersection cohomology complexes associated to the space of square matrices. (English summary) **99h:11092**
Kashiwara, Masaki Semisimple holonomic $\mathscr{D}$-modules. **99m:32013**
Kottwitz, Robert E. *see* **Goresky, Mark; et al., 99c:55009**
MacPherson, Robert D. *see* **Goresky, Mark; et al., 99c:55009**
Mars, J. G. M. (*with* Springer, T. A.) Hecke algebra representations related to spherical varieties. (English summary) **99h:20072**
Springer, T. A. *see* **Mars, J. G. M., 99h:20072**

14F35 Homotopy theory; fundamental groups [see also 14E20, 14H30]

Eyral, Christophe Une nouvelle démonstration du théorème de Zariski-Lefschetz. (English and French summaries) [A new proof of the Zariski-Lefschetz theorem] **99h:14024**
Ihara, Yasutaka What comes next after $\mathbf{Q}(\mu_{l^\infty})$? **99c:14032**
Matsuura, Atsushi The Lefschetz hyperplane section theorem for étale homotopy groups. (Japanese) (*see* **99d:11001**)
Shiho, Atsushi On crystalline fundamental groups. **99i:14023**
Tono, Keita On the fundamental group of the complement of certain affine hypersurfaces. (English summary) **99g:14023**
Voevodsky, Vladimir $\mathbf{A}^1$-homotopy theory. (English summary) **99j:14018**

Items with secondary classifications in 14F35

Harbater, David (*with* Schneps, Leila) Approximating Galois orbits of dessins. **99f:14031**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) Some illustrative examples for anabelian geometry in high dimensions. **99b:14021**
Kawahara, Yukihito The mixed Hodge structure on the fundamental group of the fiber type 2-arrangement. (English summary) **99b:14007**
Mochizuki, Shinichi The intrinsic Hodge theory of p-adic hyperbolic curves. **99j:14023**
Mostovoy, Jacob Spaces of real algebraic cycles on $\mathbf{CP}^n$. (Russian) **99i:14008**
Nakamura, Hiroaki *see* **Ihara, Yasutaka, 99b:14021**
Pop, Florian Glimpses of Grothendieck's anabelian geometry. **99f:14026**
Schneps, Leila The Grothendieck-Teichmüller group $\widehat{GT}$: a survey. **99a:14043**
— *see also* **Harbater, David, 99f:14031**
Serre, Jean-Pierre Corps locaux et isogénies. [Local fields and isogenies] (*see* **99f:00037**)
Tsuzuki, Nobuo Finite local monodromy of overconvergent unit-root F-isocrystals on a curve. (English summary) **99k:14038**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Esnault, Hélène (*with* Viehweg, Eckart) Germs of de Rham cohomology classes which vanish at the generic point. (English and French summaries) **99i:14024**
Libgober, A. The topology of complements to hypersurfaces and nonvanishing of a twisted de Rham cohomology. (English summary) **99g:14024**
Morita, Kenji On the basis of twisted de Rham cohomology. (English summary) **99m:14037**
Viehweg, Eckart *see* **Esnault, Hélène, 99i:14024**
Yekutieli, Amnon Residues and differential operators on schemes. **99j:14019**

Items with secondary classifications in 14F40

Atiyah, Michael F. Hyperbolic differential equations and algebraic geometry (after Petrowsky). (*see* **99f:00042**)
Bressler, Paul (*with* Saito, Morihiko; Youssin, Boris) Filtered perverse complexes. (English summary) **99i:14022**
Breuil, Christophe Construction de représentations p-adiques semi-stables. (English and French summaries) [Construction of semistable p-adic representations] **99k:14034**
— Cohomologie étale de p-torsion et cohomologie cristalline en réduction semi-stable. [p-torsion étale cohomology and crystalline cohomology in semistable reduction] **99m:14036**
Faltings, Gerd Integral crystalline cohomology over very ramified valuation rings. (English summary) **99e:14022**
Kaneko, Jyoichi The Gauss-Manin connection of the integral of the deformed difference product. **99h:32024**
Kato, Fumiharu The relative log Poincaré lemma and relative log de Rham theory. **99g:32015**
Saito, Morihiko *see* **Bressler, Paul; et al., 99i:14022**
Saito, Takeshi Determinant of l-adic cohomology. **99g:14019**
Tsuji, Takeshi On p-adic Hodge theory. (Japanese) **99k:14037**
Youssin, Boris *see* **Bressler, Paul; et al., 99i:14022**

14F45 Topological properties

Items with secondary classifications in 14F45

Jelonek, Zbigniew Linearly independent divisors on complex manifolds. (English summary) **99e:32010**
Jiang, Tan (*with* Yau, Stephen Shing Toung) Intersection lattices and topological structures of complements of arrangements in $\mathbf{CP}^2$. **99g:52020**
Mikhalkin, G. Topology of curves of degree 6 on cubic surfaces in $\mathbf{RP}^3$. (English summary) **99d:14064**
Tokunaga, Hiro-o Some examples of Zariski pairs arising from certain elliptic $K3$ surfaces. **99a:14055**
Yau, Stephen Shing Toung *see* **Jiang, Tan, 99g:52020**

14F99 None of the above, but in this section

Aitken, Wayne An explicit sign formula for the determinant of cohomology. (English summary) **99m:14038**
Friedlander, Eric M. Motivic complexes of Suslin and Voevodsky. (English summary) **99g:14025**
Grothendieck, Alexander Le groupe de Brauer. I. Algèbres d'Azumaya et interprétations diverses [MR 39 #5586a]. [The Brauer group. I. Azumaya algebras and diverse interpretations] (*see* **99f:00041**)
— Le groupe de Brauer. II. Théorie cohomologique [MR 39 #5586b]. [The Brauer group. II. Cohomological theory] (*see* **99f:00041**)
Huber, Annette Extensions of motives. **99j:14020**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) Some illustrative examples for anabelian geometry in high dimensions. **99b:14021**
Kamiyama, Yasuhiko The homology of singular polygon spaces. (English summary) **99g:14026**
Levine, Marc ★ Mixed motives. (English summary) **99i:14025**
Nakamura, Hiroaki *see* **Ihara, Yasutaka, 99b:14021**
Shapiro, Boris Z. (*with* Shapiro, Mikhail) On ring generated by Chern 2-forms on SL_n/B. (English and French summaries) **99g:14027**
Shapiro, Mikhail *see* **Shapiro, Boris Z., 99g:14027**
Simpson, Carlos The Hodge filtration on nonabelian cohomology. **99g:14028**

Items with secondary classifications in 14F99

Bichon, Julien Trivialisations dans les catégories tannakiennes. (English summary) [Trivializations in Tannakian categories] **99k:18010**
Burgos, Jose Ignacio Arithmetic Chow rings and Deligne-Beilinson cohomology. **99d:14015**
— (*with* Wang, Steve) Higher Bott-Chern forms and Beilinson's regulator. (English summary) **99j:14008**

Edidin, Dan (*with* Graham, William A.) Equivariant intersection theory. **99j:14003a**
— *see also* **Vistoli, Angelo, 99j:14003b**
Fimmel, Torsten Verdier duality for systems of coefficients over simplicial sets. (English summary) **99g:55024**
Graham, William A. *see* **Edidin, Dan, 99j:14003a** *and* **Vistoli, Angelo, 99j:14003b**
Krasnov, V. A. On orientable real algebraic M-surfaces. (Russian. Russian summary) **99d:14063**
Lewis, James D. A duality pairing between cohomology and higher Chow groups. (English summary) **99k:14014**
Ovseevich, A. I. The Laplace operator in an orthant (algebraic geometry approach). (English summary) **99c:39022**
Terasoma, Tomohide Cohomological Radon transform and mixed twisted Ehrhart polynomial. **99h:14007**
Vistoli, Angelo The Chow ring of $\mathscr{M}_2$. Appendix to "Equivariant intersection theory" [Invent. Math. **131** (1998), no. 3, 595–634; MR 99j:14003a] by D. Edidin and W. Graham. **99j:14003b**
Wang, Steve *see* **Burgos, Jose Ignacio, 99j:14008**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rationality questions, rational points

Billard, Hervé Sur la répartition des points rationnels de surfaces elliptiques. (English and French summaries) [Distribution of the rational points of elliptic surfaces] **99m:14039**
Bogomolov, Fedor A. (*with* Tschinkel, Yu.) Density of rational points on Enriques surfaces. **99m:14040**
Ducros, Antoine Dimension cohomologique et points rationnels sur les courbes. [Cohomological dimension and rational points on curves] **99e:14024**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with base $\mathbf{P}^1$. **99a:14028**
Harari, David Obstructions de Manin transcendantes. [Transcendental Manin obstructions] **99e:14025**
Manduchi, Elisabetta *see* **Grant, Gregory R., 99a:14028**
Manin, Yuriĭ Ivanovich Mordell-Weil problem for cubic surfaces. **99a:14029**
Moroz, B. Z. On the distribution of integer points in the real locus of an affine toric variety. **99i:14026**
Poulakis, Dimitrios Estimation effective des points entiers d'une famille de courbes algébriques. (English and French summaries) [Effective estimation of the integral points of a family of algebraic curves] **99a:14030**
Robbiani, Marcello On the arithmetic of isotropic del Pezzo surfaces of degree six. (English summary) **99m:14041**
Tschinkel, Yu. *see* **Bogomolov, Fedor A., 99m:14040**

Items with secondary classifications in 14G05

Bruhat, François Points entiers sur les courbes de genre ≥ 1 (d'après Serge Lang). [Integral points on curves of genus ≥ 1 (after Serge Lang)] (*see* **99f:00040**)
Chernousov, Vladimir I. (*with* Merkur'ev, A. S.) R-equivalence and special unitary groups. (English summary) **99m:20101**
Fried, Michael D. (*with* Jarden, Moshe) On Σ-Hilbertian fields. (English summary) **99k:12004**
Fujimori, Masami ★ Integral and rational points on algebraic curves of certain types and their Jacobian varieties over number fields. **99b:11067**
— Rational points of a curve which has a nontrivial automorphism. **99c:11075**
Gille, Philippe La R-équivalence sur les groupes algébriques réductifs définis sur un corps global. [R-equivalence on reductive algebraic groups defined over a global field] **99c:20066**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with elliptic base. **99m:11071**
Harari, David Principe de Hasse et approximation faible sur certaines hypersurfaces. (English and French summaries) [The Hasse principle and weak approximation on certain hypersurfaces] **99c:11080**
Hirschfeld, J. W. P. (*with* Korchmáros, Gábor) On the number of rational points on an algebraic curve over a finite field. (English summary) **99e:11082**
Jarden, Moshe *see* **Fried, Michael D., 99k:12004**
Kamienny, Sheldon (*with* Wetherell, Joseph L.) On torsion in abelian varieties. **99d:14045**
— (*with* Wetherell, Joseph L.) A correction to: "Torsion in abelian varieties" [Comm. Algebra **26** (1998), no. 5, 1675–1678; MR 99d:14045].
Korchmáros, Gábor *see* **Hirschfeld, J. W. P., 99e:11082**
Kulesz, Leopoldo Courbes algébriques de genre ≥ 2 possédant de nombreux points rationnels. [Algebraic curves of genus ≥ 2 with many rational points] **99k:11094**
(Kunyavskiĭ, Boris È.) *see* **Voskresenskiĭ, V. E., 99g:20090**
Manduchi, Elisabetta *see* **Grant, Gregory R., 99m:11071**
Merkur'ev, A. S. *see* **Chernousov, Vladimir I., 99m:20101**
Morain, F. Classes d'isomorphismes des courbes elliptiques supersingulières en caractéristique ≥ 3. (French summary) [Isomorphism classes of supersingular elliptic curves in characteristic ≥ 3] **99k:11089**
Morishita, Masanori Hasse principle and approximation theorems for homogeneous spaces. **99e:11047**
Niederreiter, Harald (*with* Xing, Chaoping) Drinfeld modules of rank 1 and algebraic curves with many rational points. II. **99d:11064**
Pacelli, Patricia L. Uniform bounds for stably integral points on elliptic curves. (English summary) **99m:11065**
Tzermias, Pavlos Arithmetic of cyclic quotients of the Fermat quintic. **99c:11077**
— Torsion parts of Mordell-Weil groups of Fermat Jacobians. **99c:11078**
Voskresenskiĭ, V. E. ★ Algebraic groups and their birational invariants. (English summary) **99g:20090**
Wetherell, Joseph L. *see* **Kamienny, Sheldon, 99d:14045**
Xing, Chaoping *see* **Niederreiter, Harald, 99d:11064**
Zannier, Umberto Note on g-Hilbertian fields and nonrational curves with the Hilbert property. (English summary) **99i:12001**
Zhang, Shou-Wu Equidistribution of small points on abelian varieties. **99e:14032**
— Small points and Arakelov theory. (English summary) **99i:14030**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Denef, Jan (*with* Loeser, François) Motivic Igusa zeta functions. **99j:14021**
Grothendieck, Alexander Formule de Lefschetz et rationalité des fonctions L. [Lefschetz formula and rationality of L-functions] (*see* **99f:00041**)
Loeser, François *see* **Denef, Jan, 99j:14021**
Robinson, Geoffrey R. Counting conjugacy classes of unitriangular groups associated to finite-dimensional algebras. **99h:14025**
Serre, Jean-Pierre Rationalité des fonctions ζ des variétés algébriques (d'après Bernard Dwork). [Rationality of the ζ-functions of algebraic varieties (after Bernard Dwork)] (*see* **99f:00037**)
Zúñiga-Galindo, W. A. Zeta functions of singular curves over finite fields. (English summary) **99m:14042**

Items with secondary classifications in 14G10

Bertolini, Massimo (*with* Darmon, Henri) Heegner points, p-adic L-functions, and the Cerednik-Drinfeld uniformization. **99f:11080**
Carpentier, Michel Sommes de Kloosterman généralisées: l'équation fonctionnelle. [Generalized Kloosterman sums: the functional equation] **99a:11097**
Chavdarov, Nick The generic irreducibility of the numerator of the zeta function in a family of curves with large monodromy. **99d:11071**
Darmon, Henri *see* **Bertolini, Massimo, 99f:11080**
Deninger, Christopher Some analogies between number theory and dynamical systems on foliated spaces. (English summary) **99g:11084**
Gekeler, Ernst-Ulrich (*with* Leitl, Rita; Wack, Bodo) Zeta functions of a class of elliptic curves over a rational function field of characteristic two. (English summary) **99i:11049**
Goncharov, A. B. The double logarithm and Manin's complex for modular curves. **99e:11086**
— (*with* Levin, Andreĭ Mikhailovich) Zagier's conjecture on $L(E,2)$. (English summary) **99h:19006**
Hashimoto, Ki-ichiro (*with* Tsunogai, Hiroshi) On the Sato-Tate conjecture for QM-curves of genus two. (English summary) **99m:11072**
Hsia, Liang-chung On the dynamical height zeta functions. **99c:11076**
Leitl, Rita *see* **Gekeler, Ernst-Ulrich; et al., 99i:11049**
Levin, Andreĭ Mikhailovich *see* **Goncharov, A. B., 99h:19006**
Moroz, B. Z. On the distribution of integer points in the real locus of an affine toric variety. **99i:14026**
Perrin-Riou, Bernadette p-adic L functions and trivial zeroes. (English summary) **99g:11085**
Rosen, Michael (*with* Silverman, Joseph H.) On the rank of an elliptic surface. (English summary) **99f:11081**
Silverman, Joseph H. *see* **Rosen, Michael, 99f:11081**
Tate, John On the conjectures of Birch and Swinnerton-Dyer and a geometric analog. (*see* **99f:00041**)
Trihan, Fabien Fonction L unité d'un groupe de Barsotti-Tate. (English summary) [Unit L-function of a Barsotti-Tate group] **99k:14036**
Tsunogai, Hiroshi *see* **Hashimoto, Ki-ichiro, 99m:11072**
Veys, Willem More congruences for numerical data of an embedded resolution. (English summary) **99e:14017**
Wack, Bodo *see* **Gekeler, Ernst-Ulrich; et al., 99i:11049**
Wan, Daqing Computing zeta functions over finite fields. (English summary) **99j:11073**
Yoshitomi, Kentaro On height functions on Jacobian surfaces. (English summary) **99e:11088**

14G15 Finite ground fields

Items with secondary classifications in 14G15

Agboola, A. (*with* Burns, David J.) On the Galois structure of equivariant line bundles on curves. (English summary) **99k:11177**
Blake, Ian F. (*with* Heegard, Chris; Høholdt, Tom; Wei, Victor) Algebraic-geometry codes. (English summary) **99i:94070**
Blum, Andreas (*with* Stuhler, U.) Drinfeld modules and elliptic sheaves. **99e:11071**
Burns, David J. *see* **Agboola, A., 99k:11177**
Denef, Jan (*with* Gyoja, Akihiko) Character sums associated to prehomogeneous vector spaces. (English summary) **99k:11128**
Duursma, Iwan M. Weight distributions of geometric Goppa codes. (English summary) **99m:11146**
Fuhrmann, Rainer (*with* Torres, Fernando) On Weierstrass points and optimal curves. **99e:11081**
von zur Gathen, Joachim (*with* Shparlinski, Igor E.) Computing components and projections of curves over finite fields. (English summary) **99h:11065**
Gouvêa, Fernando Q. (*with* Yui, Noriko) Observations on Fermat motives of $K3$-type. (English summary) **99f:11076**
Gyoja, Akihiko *see* **Denef, Jan, 99k:11128**
Heegard, Chris *see* **Blake, Ian F.; et al., 99i:94070**
Hirschfeld, J. W. P. (*with* Korchmáros, Gábor) On the number of rational points on an algebraic curve over a finite field. (English summary) **99e:11082**
Høholdt, Tom *see* **Blake, Ian F.; et al., 99i:94070**
Hsia, Liang-chung On the coefficients of modular polynomials for Drinfeld modules. **99h:11059**
Korchmáros, Gábor *see* **Hirschfeld, J. W. P., 99e:11082**

Meier, Willi (*with* Staffelbach, Othmar) Kryptographie und elliptische Kurven. (German summary) [Cryptography and elliptic curves] **99b:94038**
Morain, F. Classes d'isomorphismes des courbes elliptiques supersingulières en caractéristique ≥ 3. (French summary) [Isomorphism classes of supersingular elliptic curves in characteristic ≥ 3] **99k:11089**
Niederreiter, Harald Nets, (t, s)-sequences, and algebraic curves over finite fields with many rational points. (English summary) **99k:11090**
Saito, Takeshi Determinant of l-adic cohomology. **99g:14019**
Schoen, Chad An integral analog of the Tate conjecture for one-dimensional cycles on varieties over finite fields. **99e:14005**
Shparlinski, Igor E. *see* **von zur Gathen, Joachim, 99h:11065**
Siksek, S. *see* **Smart, Nigel P.**
Smart, Nigel P. (*with* Siksek, S.) A fast Diffie-Hellman protocol in genus 2. (English summary)
Staffelbach, Othmar *see* **Meier, Willi, 99b:94038**
Stichtenoth, Henning The Fermat curve in characteristic p. (English summary) **99k:11091**
Stuhler, U. *see* **Blum, Andreas, 99c:11071**
Torres, Fernando *see* **Fuhrmann, Rainer, 99e:11081**
Wan, Daqing Computing zeta functions over finite fields. (English summary) **99j:11073**
Wei, Victor *see* **Blake, Ian F.; et al., 99i:94070**
Yui, Noriko *see* **Gouvêa, Fernando Q., 99f:11076**
Zúñiga-Galindo, W. A. Zeta functions of singular curves over finite fields. (English summary) **99m:14042**

14G20 p-adic ground fields

Berkovich, Vladimir G. p-adic analytic spaces. (English summary) **99h:14026**
Bosch, Siegfried (*with* Görtz, Ulrich) Coherent modules and their descent on relative rigid spaces. **99b:14022**
Fishman, V. M. The structure of the Tate module of the Jacobian variety of a curve with potentially good reduction. (Russian. Russian summary) **99b:14023**
Görtz, Ulrich *see* **Bosch, Siegfried, 99b:14022**
Gubler, Walter Local heights of subvarieties over non-Archimedean fields. **99j:14022**
Lütkebohmert, Werner Étale coverings of p-adic discs. (English summary) **99b:14024**
Mochizuki, Shinichi The intrinsic Hodge theory of p-adic hyperbolic curves. **99j:14023**
Saïdi, Mohamed Revêtements modérés et groupe fondamental de graphe de groupes. (English summary) [Tame coverings and fundamental group of graphs of groups] **99f:14025**
Scanlon, Thomas Warren p-adic distance from torsion points of semi-abelian varieties. (English summary) **99h:14027**
Zarkhin, Yu. G. p-adic abelian integrals and commutative Lie groups. (English summary) **99e:14026**

Items with secondary classifications in 14G20

Bertapelle, Alessandra Weil restriction in the context of formal and rigid geometry. **99h:11067**
Bertolini, Massimo (*with* Darmon, Henri) Heegner points, p-adic L-functions, and the Cerednik-Drinfeld uniformization. **99f:11080**
Beyer, Peter On Serre-duality for coherent sheaves on rigid-analytic spaces. **99b:32009**
Boutot, Jean-François Uniformisation p-adique des variétés de Shimura. (French summary) [p-adic uniformization of Shimura varieties] **99i:14028**
Breuil, Christophe Cohomologie étale de p-torsion et cohomologie cristalline en réduction semi-stable. [p-torsion étale cohomology and crystalline cohomology in semistable reduction] **99m:14036**
Christol, G. (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. II. [On the index theorem for p-adic differential equations. II] **99a:12009**
Consani, Caterina Double complexes and Euler L-factors. (English summary) **99b:11065**
Darmon, Henri *see* **Bertolini, Massimo, 99f:11080**
Faltings, Gerd Integral crystalline cohomology over very ramified valuation rings. (English summary) **99e:14022**
Fujiwara, Kazuhiro Rigid geometry, Lefschetz-Verdier trace formula and Deligne's conjecture. **99c:14030**
Gekeler, Ernst-Ulrich Local and global ramification properties of elliptic curves in characteristics two and three. **99k:11081**
Huber, Roland A finiteness result for the compactly supported cohomology of rigid analytic varieties. **99h:14020**
— A finiteness result for direct image sheaves on the étale site of rigid analytic varieties. **99h:14021**
Kato, Kazuya Logarithmic structures of Fontaine-Illusie. **99b:14020**
Krir, Mohamed Défaut d'exactitude des modèles de Néron toriques sur un corps local. (English summary) [Exactness defect for toric Néron models over a local field] **99k:14076**
Mebkhout, Zoghman *see* **Christol, G., 99a:12009**
Moreno, Carlos Julio *see* **Moreno, Oscar, 99h:11068**
Moreno, Oscar (*with* Moreno, Carlos Julio) A p-adic Serre bound. **99h:11068**
Nagata, Makoto G-functions and number theory. (Japanese) (*see* **99d:11001**)
van der Put, Marius The structure of Ω and its quotients $\Gamma\backslash\Omega$. **99g:11075**
Van Steen, Guido Some rigid geometry. **99g:11079**
Varshavsky, Yakov p-adic uniformation of unitary Shimura varieties. **99m:14045**
Voloch, José Felipe Periods of ordinary abelian varieties in characteristic p. (English summary) **99j:14046**
Werner, Annette Local heights on abelian varieties and rigid analytic uniformization. (English summary) **99k:11086**
Yamazaki, Takao On Swan conductors for Brauer groups of curves over local fields. (English summary) **99h:11136**

14G25 Global ground fields

Billard, Hervé Propriétés arithmétiques d'une famille de surfaces $K3$. (English and French summaries) [Arithmetical properties of a family of $K3$ surfaces] **99g:14029**
Bruhat, François Points entiers sur les courbes de genre ≥ 1 (d'après Serge Lang). [Integral points on curves of genus ≥ 1 (after Serge Lang)] (*see* **99f:00040**)
Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Rational points and zero-cycles on fibred varieties: Schinzel's hypothesis and Salberger's device. **99i:14027**
Künnemann, Klaus Projective regular models for abelian varieties, semistable reduction, and the height pairing. **99m:14043**
Lang, Serge Les formes bilinéaires de Néron et Tate [MR **31** #1252]. [The bilinear forms of Néron and Tate] (*see* **99f:00040**)
Pop, Florian Glimpses of Grothendieck's anabelian geometry. **99f:14026**
Samuel, Pierre La conjecture de Mordell pour les corps de fonctions (d'après H. Grauert). [The Mordell conjecture for function fields (after H. Grauert)] (*see* **99f:00041**)
Shafarevich, Igor R. On some arithmetic properties of algebraic varieties. **99m:14044**
Skorobogatov, A. N. *see* **Colliot-Thélène, J.-L.; et al., 99i:14027**
Swinnerton-Dyer, H. P. F. *see* **Colliot-Thélène, J.-L.; et al., 99i:14027**

Items with secondary classifications in 14G25

Bertrand, Daniel Relative splitting of one-motives. **99a:11073**
Bogomolov, Fedor A. (*with* Tschinkel, Yu.) Density of rational points on Enriques surfaces. **99m:14040**
Borovoi, Mikhail (*with* Kunyavskiĭ, Boris È.) On the Hasse principle for homogeneous spaces with finite stabilizers. (English and French summaries) **99b:11068**
Buium, Alexandru Intersection multiplicities on abelian varieties. **99f:14061**
Colliot-Thélène, J.-L. (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Hasse principle for pencils of curves of genus one whose Jacobians have rational 2-division points. **99k:11095**
Cremona, J. E. ★ Algorithms for modular elliptic curves. (English summary) **99e:11068**
Dem'yanenko, V. A. Elliptic functions and the Fermat curve. (Russian) **99e:11069**
Gasbarri, Carlo Hauteurs canoniques sur l'espace de modules des fibrés stables sur une courbe algébrique. (English and French summaries) [Canonical heights on the moduli space of stable bundles over an algebraic curve] **99e:14029**
Guletskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Reciprocity laws in Brauer groups of function fields of numerical curves with special Jacobians. (Russian. English and Russian summaries) **99f:11077**
Harari, David Obstructions de Manin transcendantes. [Transcendental Manin obstructions] **99e:14025**
Harbater, David (*with* Schneps, Leila) Approximating Galois orbits of dessins. **99f:14031**
Hazama, Fumio Pell equations for polynomials. (English summary) **99d:11068**
Izu, Tetsuya *see* **Kogure, Jun; et al., (99h:00034)**
Jannsen, Uwe Principe de Hasse cohomologique. [Cohomological Hasse principle] **99a:11080**
de Jong, Aise Johan Barsotti-Tate groups and crystals. **99i:14051**
Kogure, Jun (*with* Izu, Tetsuya; Yokoyama, Kazuhiro) Mounting an improved Schoof algorithm according to Atkin, Elkies et al. (Japanese. Japanese summary) (*see* **99h:00034**)
Kunyavskiĭ, Boris È. *see* **Borovoi, Mikhail, 99b:11068** *and* **Voskresenskiĭ, V. E., 99g:20090**
Poizat, Bruno H.L.M. (Hrushovski-Lang-Mordell). (French. French summary) **99c:11154**
Poonen, Bjorn The classification of rational preperiodic points of quadratic polynomials over **Q**: a refined conjecture. **99j:11076**
Scanlon, Thomas Warren The *abc* theorem for commutative algebraic groups in characteristic p. **99b:11062**
Schneps, Leila *see* **Harbater, David, 99f:14031**
Shioda, Tetsuji Constructing curves with high rank via symmetry. (English summary) **99g:11080**
Skorobogatov, A. N. *see* **Colliot-Thélène, J.-L.; et al., 99k:11095**
Stoll, Michael On the arithmetic of the curves $y^2 = x^l + A$ and their Jacobians. (English summary) **99h:11069**
Swinnerton-Dyer, H. P. F. Brauer-Manin obstructions on some Del Pezzo surfaces. **99h:11071**
— *see also* **Colliot-Thélène, J.-L.; et al., 99k:11095**
Tschinkel, Yu. *see* **Bogomolov, Fedor A., 99m:14040**
Vojta, Paul A more general *abc* conjecture. **99k:11096**
Voloch, José Felipe Diophantine geometry in characteristic p: a survey. **99c:11081**
Voskresenskiĭ, V. E. ★ Algebraic groups and their birational invariants. (English summary) **99g:20090**
Yanchevskiĭ, V. I. *see* **Guletskiĭ, V. I., 99f:11077**
Yokoyama, Kazuhiro *see* **Kogure, Jun; et al., (99h:00034)**

14G27 Nonalgebraically closed ground fields

Ducros, Antoine Fibrations en variétés de Severi-Brauer au-dessus de la droite projective sur le corps des fonctions d'une courbe réelle. (English and French summaries) [Fibrations in Severi-Brauer varieties over the projective line over the function field of a real curve] **99h:14028**
— L'obstruction de réciprocité à l'existence de points rationnels pour certaines variétés sur le corps des fonctions d'une courbe réelle. (English summary) [The reciprocity obstruction to the existence of rational points for certain varieties defined over the function field of a real curve] **99j:14024**
Krasnov, V. A. On the Brauer group of a real algebraic surface. (Russian) **99b:14025**

Items with secondary classifications in 14G27

Frossard, Emmanuelle Groupe de Chow de dimension zéro des fibrations en variétés de Severi-Brauer. (English summary) [Zero-dimensional Chow group of fibrations in Severi-Brauer varieties] **99c:14011**
Granja Barón, Angel (*with* Martinez, M. C.) Zariski's equisingularity for families of plane curves in positive characteristic. (English summary) **99g:14034**
Grant, Gregory R. (*with* Manduchi, Elisabetta) Root numbers and algebraic points on elliptic surfaces with base $\mathbf{P}^1$. **99a:14028**

Kucharz, Wojciech (*with* Rusek, Kamil) Approximation of smooth maps by real algebraic morphisms. (English summary) **99b:14062**
Manduchi, Elisabetta *see* **Grant, Gregory R., 99a:14028**
Martinez, M. C. *see* **Granja Barón, Angel, 99g:14034**
Rusek, Kamil *see* **Kucharz, Wojciech, 99b:14062**

14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

Boutot, Jean-François Uniformisation p-adique des variétés de Shimura. (French summary) [p-adic uniformization of Shimura varieties] **99i:14028**
Freitag, E. (*with* Hunt, Bruce) A remark on a theorem of Runge. (English summary) **99j:14025**
Harris, Michael (*with* Li, Jian-Shu) A Lefschetz property for subvarieties of Shimura varieties. (English summary) **99e:14027**
Hunt, Bruce *see* **Freitag, E., 99j:14025**
Kani, E. (*with* Schanz, W.) Modular diagonal quotient surfaces. **99a:14031**
Li, Jian-Shu *see* **Harris, Michael, 99e:14027**
Moonen, B. J. J. Linearity properties of Shimura varieties. II. (English summary) **99k:14039**
— Linearity properties of Shimura varieties. I. **99e:14028**
Rajan, C. S. Automorphisms of $X(11)$ over characteristic 3 and the Mathieu group M_{11}. (English summary) **99f:14027**
Schanz, W. *see* **Kani, E., 99a:14031**
Varshavsky, Yakov p-adic uniformation of unitary Shimura varieties. **99m:14045**

Items with secondary classifications in 14G35

Carayol, Henri Limites dégénérées de séries discrètes, formes automorphes et variétés de Griffiths-Schmid: le cas du groupe U(2, 1). (English summary) [Degenerate limits of discrete series, automorphic forms and Griffiths-Schmid varieties: the case of the group U(2, 1)] **99k:22027**
Clozel, L. (*with* Venkataramana, T. N.) Restriction of the holomorphic cohomology of a Shimura variety to a smaller Shimura variety. **99g:11077**
Diamond, Fred On the Hecke action on the cohomology of Hilbert-Blumenthal surfaces. **99c:11051**
Dolgachev, Igor V. Invariant stable bundles over modular curves $X(p)$. **99j:14036**
Edixhoven, Bas Special points on the product of two modular curves. (English summary) **99k:11087**
Gonzàlez Rovira, Josep (*with* Lario, Joan-C.) Rational and elliptic parametrizations of Q-curves. (English summary) **99f:11070**
Gritsenko, V. A. Precious Siegel modular forms of genus two. (English summary) **99j:11070**
— (*with* Hulek, Klaus) Commutator coverings of Siegel threefolds. **99e:11075**
— (*with* Hulek, Klaus) Minimal Siegel modular threefolds. (English summary) **99c:14048**
Hammond, William F. Special theta relations. **99a:14070**
Hulek, Klaus *see* **Gritsenko, V. A., 99c:14048** *and* **99e:11075**
Ihara, Yasutaka Shimura curves over finite fields and their rational points. **99h:11066**
Kings, Guido Higher regulators, Hilbert modular surfaces, and special values of L-functions. **99b:11051**
— Extensions of motives associated to K-theory elements for Hilbert modular forms. **99g:11078**
Lario, Joan-C. *see* **Gonzàlez Rovira, Josep, 99f:11070**
Ling, San On component groups of $J_0(N)$ and degeneracy maps. (English summary) **99a:11077**
Michel, Philippe (*with* Ullmo, Emmanuel) Points de petite hauteur sur les courbes modulaires $X_0(N)$. (English summary) [Points of small height on the modular curves $X_0(N)$] **99c:11074**
Shiga, Hironori On the arithmetic properties of the modular function induced from the hypergeometric differential equation of type (3, 6). (English summary) **99f:32033**
Ullmo, Emmanuel *see* **Michel, Philippe, 99c:11074**
Venkataramana, T. N. *see* **Clozel, L., 99g:11077**

14G40 Arithmetic varieties and schemes; Arakelov theory

Abbes, Ahmed Hauteurs et discrétude (d'après L. Szpiro, E. Ullmo et S. Zhang). (French summary) [Heights and discreteness (after L. Szpiro, E. Ullmo and S. Zhang)] **99h:14029**
Bost, Jean-Benoît Analytic torsion of projective spaces and compatibility with immersions of Quillen metrics. **99h:14030**
Burgos, Jose Ignacio Arithmetic Chow rings and Deligne-Beilinson cohomology. **99d:14015**
Gasbarri, Carlo Hauteurs canoniques sur l'espace de modules des fibrés stables sur une courbe algébrique. (English and French summaries) [Canonical heights on the moduli space of stable bundles over an algebraic curve] **99e:14029**
Jahnel, Jörg Heights for line bundles on arithmetic varieties. (English summary) **99g:14030**
Köhler, Kai (*with* Roessler, Damien) Un théorème du point fixe de Lefschetz en géométrie d'Arakelov. (English and French summaries) [A Lefschetz fixed point theorem in Arakelov geometry] **99m:14046**
Kühn, Ulf Generalized arithmetic intersection numbers. (English and French summaries) **99j:14026**
Künnemann, Klaus The Kähler identity for bigraded Hodge-Lefschetz modules and its application in non-Archimedean Arakelov geometry. (English summary) **99i:14029**
Nobile, Augusto (*with* Villamayor U., Orlando E.) Zariski factorization theory for sheaves of ideals on arithmetic three-folds. **99j:14027**
Roessler, Damien *see* **Köhler, Kai, 99m:14046**
Soulé, Christophe Hermitian vector bundles on arithmetic varieties. **99e:14030**
Takeda, Yuichiro A relation between standard conjectures and their arithmetic analogues. **99m:14047**
Ullmo, Emmanuel Positivité et discrétion des points algébriques des courbes. [Positivity and discreteness of algebraic points of curves] **99e:14031**
Villamayor U., Orlando E. *see* **Nobile, Augusto, 99j:14027**
Zhang, Shou-Wu Equidistribution of small points on abelian varieties. **99e:14032**
— Small points and Arakelov theory. (English summary) **99i:14030**

Items with secondary classifications in 14G40

Abbes, Ahmed (*with* Ullmo, Emmanuel) Auto-intersection du dualisant relatif des courbes modulaires $X_0(N)$. [Self-intersection of the relative dualizing sheaf of the modular curves $X_0(N)$] **99e:11077**
Billard, Hervé Propriétés arithmétiques d'une famille de surfaces $K3$. (English and French summaries) [Arithmetical properties of a family of $K3$ surfaces] **99g:14029**
Burgos, Jose Ignacio (*with* Wang, Steve) Higher Bott-Chern forms and Beilinson's regulator. (English summary) **99j:14008**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) On the ε-constants of arithmetic schemes. **99d:11121**
Erez, Boas *see* **Chinburg, Ted; et al., 99d:11121**
Gubler, Walter Local heights of subvarieties over non-Archimedean fields. **99j:14022**
Jorgenson, Jay (*with* Kramer, Jürg) Towards the arithmetic degree of line bundles on abelian varieties. (English summary) **99h:11047**
Kramer, Jürg *see* **Jorgenson, Jay, 99h:11047**
Kudla, Stephen S. Central derivatives of Eisenstein series and height pairings. **99j:11047**
Lee, Min Ho[1] Generalized Jacobi forms and abelian schemes over arithmetic varieties. (English summary) **99e:11057**
Michel, Philippe (*with* Ullmo, Emmanuel) Points de petite hauteur sur les courbes modulaires $X_0(N)$. (English summary) [Points of small height on the modular curves $X_0(N)$] **99c:11074**
Mikkelsen, Per Effective bounds for integral points on arithmetic surfaces. **99g:11081**
Moriwaki, Atsushi Relative Bogomolov's inequality and the cone of positive divisors on the moduli space of stable curves. (English summary) **99a:14034**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99d:11121**
Saïdi, Mohamed p-rank and semi-stable reduction of curves. II. **99m:14054**
Schmidt, Wolfgang M. Heights of points on subvarieties of $\mathbf{G}_m^n$. **99h:11070**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 99d:11121**
Tian, Qingchun Class field theory for arithmetic surfaces. (English summary) **99b:11071**
Ullmo, Emmanuel *see* **Michel, Philippe, 99c:11074** *and* **Abbes, Ahmed, 99e:11077**
Wang, Bin Asymptotics of the Archimedean height pairing. (English summary) **99i:32013**
Wang, Steve *see* **Burgos, Jose Ignacio, 99j:14008**

14G99 None of the above, but in this section

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14Hxx Curves

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14H05 Algebraic functions; function fields [see also 11R58]

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14H25 Arithmetic ground fields [see also 11Dxx, 11G05, 14Gxx]

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Ohbuchi, Akira *see* **Ballico, Edoardo; et al., 99b:14027**

Plaza Martín, Francisco J. Prym varieties and the infinite Grassmannian. (English summary) **99a:14037**
Samuel, Pierre La jacobienne d'une courbe algébrique (d'après W. L. Chow). [The Jacobian of an algebraic curve (after W. L. Chow)] (*see* **99f:00035**)
Seppälä, Mika *see* **Gianni, Patrizia; et al., 99m:14055**
Silhol, Robert *see* **Gianni, Patrizia; et al., 99m:14055**
Smolinsky, Lawrence *see* **McDaniel, Andrew, 99k:14047**
Trager, Barry *see* **Gianni, Patrizia; et al., 99m:14055**
Weil, André Sur le théorème de Torelli. [On Torelli's theorem] (*see* **99f:00036**)
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Items with secondary classifications in 14H40

Babelon, O. (*with* Bernard, Denis; Smirnov, F. A.) Form factors, KdV and deformed hyperelliptic curves. (English summary) **99c:81217**
Bernard, Denis *see* **Babelon, O.; et al., 99c:81217**
Biswas, Indranil (*with* Nag, Subhashis) Jacobians of Riemann surfaces and the Sobolev space $H^{1/2}$ on the circle. (English summary) **99g:58009**
Bombieri, Enrico (*with* Cohen, Paula Beazley) Siegel's lemma, Padé approximations and Jacobians. **99k:11092**
Cardona, G. (*with* Gonzàlez Rovira, Josep; Lario, Joan-C.; Rio, Anna) On curves of genus 2 with Jacobian of GL_2-type. (English summary) **99j:11068**
Cohen, Paula Beazley *see* **Bombieri, Enrico, 99k:11092**
Coppens, Marc Brill-Noether theory for non-special linear systems. II. Connectedness and irreducibility. (English summary) **99b:14003**
Debarre, Olivier Trisecant lines and Jacobians. II. (English summary) **99a:14038**
Donagi, Ron Y. Seiberg-Witten integrable systems. **99c:58066**
Fantechi, Barbara (*with* Göttsche, Lothar; van Straten, Duco) Euler number of the compactified Jacobian and multiplicity of rational curves. (English summary) **99i:14065**
Fishman, V. M. The structure of the Tate module of the Jacobian variety of a curve with potentially good reduction. (Russian. Russian summary) **99b:14023**
Fujimori, Masami ★ Integral and rational points on algebraic curves of certain types and their Jacobian varieties over number fields. **99b:11067**
Gauthier, Luc Quelques variétés usuelles en géométrie algébrique. [Some usual varieties in algebraic geometry] (*see* **99f:00033**)
Gavrilov, Lubomir Integrable systems and algebraic groups. (English summary) **99a:58090**
van Geemen, Bert (*with* de Jong, Aise Johan) On Hitchin's connection. **99c:14015**
Gérardy, Sophie Le système de Hénon-Heiles. (English and French summaries) [The Hénon-Heiles system] **99e:58098**
Gonzàlez Rovira, Josep *see* **Cardona, G.; et al., 99j:11068**
Göttsche, Lothar *see* **Fantechi, Barbara; et al., 99i:14065**
Hurtubise, Jacques C. The algebraic geometry of the Kostant-Kirillov form. (English summary) **99b:58112**
de Jong, Aise Johan *see* **van Geemen, Bert, 99c:14015**
Kim, Seonja On the Clifford sequence of a general k-gonal curve. (English summary) **99d:14006**
Lario, Joan-C. *see* **Cardona, G.; et al., 99j:11068**
Marini, Giambattista A geometrical proof of Shiota's theorem on a conjecture of S. P. Novikov. (English summary) **99a:14039**
Michel, Philippe Le range de familles de variétés abéliennes. [The rank of families of abelian varieties] **99e:14053**
Nag, Subhashis *see* **Biswas, Indranil, 99g:58009**
Ohbuchi, Akira On some numerical relations of d-gonal linear systems. (English summary) **99b:14005**
Pauly, Christian Fibrés paraboliques de rang 2 et fonctions thêta généralisées. [Parabolic bundles of rank 2 and generalized theta functions] **99m:14030**
Quine, J. R. (*with* Zhang, Peter Liang) Extremal symplectic lattices. (English summary) **99m:11073**
Rio, Anna *see* **Cardona, G.; et al., 99j:11068**
Samuel, Pierre Variété de Picard et groupe de Severi (d'après A. Néron). [Picard variety and Severi group (after A. Néron)] (*see* **99f:00034**)
Schaefer, Edward F. Computing a Selmer group of a Jacobian using functions on the curve. **99h:11063**
Schaub, Daniel Courbes spectrales et compactifications de jacobiennes. [Spectral curves and compactifications of Jacobians] **99h:14011**
Scognamillo, Renata An elementary approach to the abelianization of the Hitchin system for arbitrary reductive groups. (English summary) **99b:14013**
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Steffens, A. Remarks on Seshadri constants. **99c:14009**
Stoll, Michael On the arithmetic of the curves $y^2 = x^l + A$ and their Jacobians. (English summary) **99h:11069**
van Straten, Duco *see* **Fantechi, Barbara; et al., 99i:14065**
Subramanian Moosath, K. S. (*with* Sitaramayya, M.) Picard bundles as subbundles. **99d:14047**
Teixidor i Bigas, Montserrat A Riemann singularity theorem for generalised Brill-Noether loci. (English summary) **99k:14055**
Treibich, Armando (*with* Verdier, Jean-Louis) Au-delà des potentiels et revêtements tangentiels hyperelliptiques exceptionnels. (English and French summaries) [Beyond hyperelliptic potentials and exceptional hyperelliptic tangential covers] **99a:14041**
Tsyganov, A. V. The Stäckel systems and algebraic curves. (English summary) **99j:58103**
Ullmo, Emmanuel Positivité et discrétion des points algébriques des courbes. [Positivity and discreteness of algebraic points of curves] **99e:14031**
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(Zannier, Umberto) *see* **Bombieri, Enrico, 99k:11092**
Zhang, Peter Liang *see* **Quine, J. R., 99m:11073**

14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

Bressler, Paul (*with* Brylinski, Jean-Luc) On the singularities of theta divisors on Jacobians. **99i:14034**
Brylinski, Jean-Luc *see* **Bressler, Paul, 99i:14034**
Debarre, Olivier Trisecant lines and Jacobians. II. (English summary) **99a:14038**
Ichikawa, Takashi Universal periods of hyperelliptic curves and their applications. **99k:14048**
Kitaev, A. V. (*with* Korotkin, D. A.) On solutions of the Schlesinger equations in terms of Θ-functions. **99j:14032**
Korotkin, D. A. *see* **Kitaev, A. V., 99j:14032**
Marini, Giambattista A geometrical proof of Shiota's theorem on a conjecture of S. P. Novikov. (English summary) **99a:14039**
Mateos Guilarte, Juan (*with* Muñoz Porras, José María; de la Torre Mayado, Marina) Elliptic theta functions and the fractional quantum Hall effect. (English summary) **99k:14049**
Muñoz Porras, José María *see* **Mateos Guilarte, Juan; et al., 99k:14049**
Nakayashiki, Atsushi On the Thomae formula for Z_N curves. (English summary) **99c:14041**
de la Torre Mayado, Marina *see* **Mateos Guilarte, Juan; et al., 99k:14049**

Items with secondary classifications in 14H42

Deconinck, Bernard (*with* Segur, Harvey) The KP equation with quasiperiodic initial data. (English summary) **99m:35203**
Krichever, Igor Moiseevich (*with* Wiegmann, P. B.; Zabrodin, A. V.) Elliptic solutions to difference non-linear equations and related many-body problems. (English summary) **99e:58103**
Oxbury, William Spin Verlinde spaces and Prym theta functions. **99m:14029**
Pauly, Christian Fibrés paraboliques de rang 2 et fonctions thêta généralisées. [Parabolic bundles of rank 2 and generalized theta functions] **99m:14030**
Sadovnichuk, S. G. A direct method for constructing three-gap solutions of nonlinear equations. (Russian. Russian summary) **99c:58079**
Segur, Harvey *see* **Deconinck, Bernard, 99m:35203**
Wiegmann, P. B. *see* **Krichever, Igor Moiseevich; et al., 99e:58103**
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14H45 Special curves and curves of low genus

Ballico, Edoardo Bielliptic curves in positive characteristic and Weierstrass points. (English and Italian summaries) **99f:14034**
— On the general hyperplane section of a projective curve. (English summary) **99f:14035**
— (*with* Keem, Changho) Variety of linear systems on double covering curves. (English summary) **99c:14042**
— (*with* Giovanetti, F.; Russo, Barbara) On the projective geometry of strange plane curves invariant by a finite group. **99e:14034**
Barile, Margherita (*with* Morales, Marcel) On the equations defining projective monomial curves. **99c:14043**
D'Almeida, Jean Courbes tracées sur une surface projective lisse. (French summary) [Curves on a smooth projective surface] **99g:14037**
Dussaud, René Formules de Bairstow et courbes algébriques. [Bairstow formulas and algebraic curves] (*see* **99h:00018**)
— Ensembles algébriques metacycliques. (French summary) [Algebraic and metacyclic sets] (*see* **99g:00032**)
Dye, R. H. The plane sextic curve fixed by A_6. (English summary) **99m:14057**
Giovanetti, F. *see* **Ballico, Edoardo; et al., 99e:14034**
Hazama, Fumio A generating function for rational curves on rational surfaces.
Homma, Masaaki[2] Separable gonality of a Gorenstein curve. **99k:14050b**
— Singular hyperelliptic curves. (English summary) **99k:14050a**
Iitaka, Shigeru Minimal plane curves. (*see* **99g:00046**)
Keem, Changho *see* **Ballico, Edoardo, 99c:14042**
Komatsu, Makoto Weierstrass type expression of curves of genus two and modular forms. (English summary) **99m:14058**
Mignon, Thierry Systèmes linéaires de courbes planes à singularités ordinaires imposées. (English and French summaries) [Linear systems of plane curves with prescribed ordinary singularities] **99g:14038**
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Morifuji, Takayuki A note on the reducibility of automorphisms of the Klein curve and the η-invariant of mapping tori. (English summary) **99g:14039**
Ohbuchi, Akira On the difference of 4-gonal linear systems on some curves. (English summary) **99d:14020**
— On the composition of pentagonal curves. (Japanese) (*see* **99e:30001**)
Russo, Barbara *see* **Ballico, Edoardo; et al., 99e:14034**
Samuel, Pierre Invariants arithmétiques des courbes de genre 2 (d'après Jun Ichi Igusa). [Arithmetical invariants of curves of genus 2 (after Jun-ichi Igusa)] (*see* **99f:00039**)
Tanaka, Tatsuji Correction to the paper: "On Chow forms of elliptic quartic curves" [Rep. Fac. Sci. Engrg. Saga Univ. Math. **25** (1997), no. 1-2, 1–4; MR 98a:14045]. **99h:14034**
Tokunaga, Hiro-o Dihedral coverings branched along maximizing sextics. **99d:14021**
Yanagawa, Kohji On the regularities of arithmetically Buchsbaum curves. **99b:14028**

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Alishahiha, Mohsen Simple derivation of the Picard-Fuchs equations for the Seiberg-Witten models. (English summary) **99c:81226**
Apikyan, S. A. (*with* Efthimiou, Costas J.) Minimal models of CFT on Z_N-surfaces. (English summary) **99a:81161**
Babelon, O. (*with* Bernard, Denis; Smirnov, F. A.) Form factors, KdV and deformed hyperelliptic curves. (English summary) **99k:58081**
Ballico, Edoardo (*with* Hein, Georg) On the stability of the restriction of $T\mathbf{P}^n$ to projective curves. (English summary) **99c:14046**
— Brill-Noether theory for vector bundles on projective curves. **99i:14037**

Berg, Anders Høyer Enumerative geometry for plane cubic curves in characteristic 2. (English summary) **99k:14087**
Bernard, Denis *see* **Babelon, O.; et al., 99k:58081**
de Boer, Mario A. The generalized Hamming weights of some hyperelliptic codes. (English summary) **99c:94056**
Boileau, Michel (*with* Fourrier, Laurence) Knot theory and plane algebraic curves. (English summary) **99e:57009**
Catanese, F. (*with* Hulek, Klaus) Rational surfaces in $\mathbf{P}^4$ containing a plane curve. (English summary) **99f:14044**
Coray, Daniel (*with* Manoil, Constantin; Vainsencher, Israel) Nonminimal rational curves on $K3$ surfaces. **99a:14052**
D'Hoker, Eric (*with* Phong, Duong H.) Spectral curves for super-Yang-Mills with adjoint hypermultiplet for general simple Lie algebras. (English summary) **99m:58108**
Dragović, Vladimir Solution of the Yang equation, and algebraic curves of genus greater than 1. (Russian) **99g:81086**
Efthimiou, Costas J. *see* **Apikyan, S. A., 99a:81161**
Eguchi, Tohru String duality and a new description of the E_6 singularity. (English summary) **99m:81183**
Ennes, Isabel P. (*with* Naculich, Stephen G.; Rhedin, Henric; Schnitzer, Howard J.) One-instanton predictions for non-hyperelliptic curves derived from M-theory. (English summary) **99h:81207**
Fayyazuddin, Ansar (*with* Spaliński, Michał) The Seiberg-Witten differential from M-theory. (English summary) **99c:81237**
Fourrier, Laurence *see* **Boileau, Michel, 99e:57009**
Ghezelbash, Amir M. Periods and prepotential in $N = 2$ supersymmetric E_6 Yang-Mills theory. (English summary) **99c:81238**
Giraldo, Luis (*with* Sols Lucía, Ignacio) The irregularity of ruled surfaces in $\mathbf{P}^3$. (English summary) **99m:14067**
Hein, Georg *see* **Ballico, Edoardo, 99c:14046**
Hulek, Klaus *see* **Catanese, F., 99f:14044**
Kato, Takao (*with* Keem, Changho; Ohbuchi, Akira) Variety of special linear systems on k-sheeted coverings. (English summary) **99a:14009**
Keem, Changho *see* **Kato, Takao; et al., 99a:14009**
Khoze, Valentin V. (*with* Mattis, Michael P.; Slater, Matthew J.) The instanton hunter's guide to supersymmetric SU(N) gauge theories. (English summary) **99m:81254**
Lerche, Wolfgang Introduction to Seiberg-Witten theory and its stringy origin. (English summary) (*see* **99e:81005**)
L'vovskiĭ, S. M. On inflection points, monomial curves, and hypersurfaces containing projective curves. **99e:14033**
Manoil, Constantin *see* **Coray, Daniel; et al., 99a:14052**
Masuda, Takahiro (*with* Sasaki, Toru[2]; Suzuki, Hisao) Seiberg-Witten theory of rank two gauge groups and hypergeometric series. (English summary) **99i:81248**
Mattis, Michael P. *see* **Khoze, Valentin V.; et al., 99m:81254**
Minahan, Joseph A. (*with* Nemeschansky, D.; Warner, N. P.) Instanton expansions for mass deformed $N = 4$ super Yang-Mills theories. (English summary) **99m:81258**
Naculich, Stephen G. *see* **Ennes, Isabel P.; et al., 99h:81207**
Nakayashiki, Atsushi On the Thomae formula for Z_N curves. (English summary) **99c:14041**
Nemeschansky, D. *see* **Minahan, Joseph A.; et al., 99m:81258**
Ohbuchi, Akira *see* **Kato, Takao; et al., 99a:14009**
Oxbury, William (*with* Pauly, Christian) Heisenberg invariant quartics and $\mathcal{SU}_C(2)$ for a curve of genus four. **99k:14022**
Paluszny, Marco (*with* Tovar, Francisco; Patterson, Richard R.) G^2 composite cubic Bézier curves. (English summary) **99m:65036**
Patterson, Richard R. *see* **Paluszny, Marco; et al., 99m:65036**
Pauly, Christian *see* **Oxbury, William, 99k:14022**
Phong, Duong H. *see* **D'Hoker, Eric, 99m:58108**
Rabin, Jeffrey M. Geodesics and BPS states in $N = 2$ supersymmetric QCD. (English summary) **99a:81174**
Rajan, C. S. Automorphisms of $X(11)$ over characteristic 3 and the Mathieu group M_{11}. (English summary) **99f:14027**
Rhedin, Henric *see* **Ennes, Isabel P.; et al., 99h:81207**
Sasaki, Toru[2] *see* **Masuda, Takahiro; et al., 99i:81248**
Schnitzer, Howard J. *see* **Ennes, Isabel P.; et al., 99h:81207**
Schulze, Jürgen[1] (*with* Warner, N. P.) BPS geodesics in $N = 2$ supersymmetric Yang-Mills theory. (English summary) **99a:81176**
Slater, Matthew J. *see* **Khoze, Valentin V.; et al., 99m:81254**
Smirnov, F. A. *see* **Babelon, O.; et al., 99k:58081**
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Spaliński, Michał *see* **Fayyazuddin, Ansar, 99c:81237**
Stöhr, Karl-Otto Hyperelliptic Gorenstein curves. (English summary) **99m:14049**
Suzuki, Hisao *see* **Masuda, Takahiro; et al., 99i:81248**
Terashima, Seiji (*with* Yang, Sung-Kil) ADE confining phase superpotentials. (English summary) **99d:81162**
Tovar, Francisco *see* **Paluszny, Marco; et al., 99m:65036**
Tsyganov, A. V. The Stäckel systems and algebraic curves. (English summary) **99j:58103**
Vainsencher, Israel *see* **Coray, Daniel; et al., 99a:14052**
Vaninskiĭ, K. L. Symplectic structures and volume elements in the function space for the cubic Schrödinger equation. **99d:58092**
van Wamelen, Paul Examples of genus two CM curves defined over the rationals. (English summary) **99c:11079**
Warner, N. P. *see* **Schulze, Jürgen[1], 99a:81176** *and* **Minahan, Joseph A.; et al., 99m:81258**
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14H50 Space curves

Cook, Michele The connectedness of space curve invariants. (English summary) **99a:14040**
Ellia, Philippe Double structures and normal bundle of space curves. (English summary) **99m:14059**
Maggioni, Renato (*with* Ragusa, Alfio) Betti numbers of space curves bounded by Hilbert functions. (English summary) **99e:14035**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Quand un morphisme de fibrés dégénère-t-il le long d'une courbe lisse? [When does a bundle morphism degenerate along a smooth curve?] **99i:14035**
Paoletti, Roberto On Halphen's speciality theorem. **99k:14051**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 99i:14035**
Ragusa, Alfio *see* **Maggioni, Renato, 99e:14035**
Roggero, Margherita (*with* Valabrega, Paolo) On the smallest degree of a surface containing a space curve. (Italian summary) **99b:14029**
Schlesinger, Enrico A new proof of a theorem of Beorchia on the genus of space curves. (English summary) **99i:14036**
— A speciality theorem for Cohen-Macaulay space curves. (English summary) **99j:14033**
Valabrega, Paolo *see* **Roggero, Margherita, 99b:14029**
Xu, Geng On the intersection of rational curves with cubic plane curves. **99e:14036**

Items with secondary classifications in 14H50

Aït Amrane, Samir Sur le schéma de Hilbert des courbes de degré d et genre $(d-3)(d-4)/2$ de $\mathbf{P}^3_k$. (English and French summaries) [On the Hilbert scheme of space curves of degree d and genus $(d-3)(d-4)/2$ of $\mathbf{P}^3_k$] **99k:14006**
Barile, Margherita (*with* Morales, Marcel) On the equations defining projective monomial curves. **99c:14043**
Chiantini, Luca (*with* Ciliberto, Ciro) Towards a Halphen theory of linear series on curves. (English summary) **99i:14006**
Ciliberto, Ciro *see* **Chiantini, Luca, 99i:14006**
Morales, Marcel *see* **Barile, Margherita, 99c:14043**
Nollet, Scott The Hilbert schemes of degree three curves. (English and French summaries) **99a:14003**

14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

Fesenko, Ivan B. *see* **Vostokov, S. V., (99a:00015)**
Gesztesy, Fritz (*with* Weikard, Rudi) A characterization of all elliptic algebro-geometric solutions of the AKNS hierarchy. **99k:14052**
Polishchuk, Alexander (*with* Zaslow, Eric) Categorical mirror symmetry: the elliptic curve. (English summary) **99j:14034**
Treibich, Armando (*with* Verdier, Jean-Louis) Au-delà des potentiels et revêtements tangentiels hyperelliptiques exceptionnels. (English and French summaries) [Beyond hyperelliptic potentials and exceptional hyperelliptic tangential covers] **99a:14041**
Verdier, Jean-Louis *see* **Treibich, Armando, 99a:14041**
Vostokov, S. V. (*with* Fesenko, Ivan B.) Elliptic curves and formal groups. (Russian) (*see* **99a:00015**)
Weikard, Rudi *see* **Gesztesy, Fritz, 99k:14052**
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Items with secondary classifications in 14H52

Aspinwall, Paul S. (*with* Morrison, David R.) Non-simply-connected gauge groups and rational points on elliptic curves. (English summary) **99j:14040**
Carroll, Robert Wayne Remarks on Whitham dynamics. (English summary) **99k:58085**
Dem'yanenko, V. A. Elliptic functions and the Fermat curve. (Russian) **99e:11069**
Donagi, Ron Y. Seiberg-Witten integrable systems. **99c:58066**
Flume, R. Some remarks on $N = 2$ extended supersymmetric Yang-Mills theories and Seiberg-Witten duality. **99m:81248**
Friedman, Robert David (*with* Morgan, John W.; Witten, Edward) Vector bundles and F theory. (English summary) **99g:14052**
— (*with* Morgan, John W.; Witten, Edward) Principal G-bundles over elliptic curves. **99j:14037**
Gesztesy, Fritz (*with* Weikard, Rudi) Elliptic algebro-geometric solutions of the KdV and AKNS hierarchies—an analytic approach. (English summary) **99i:58075**
Getzler, Ezra The semi-classical approximation for modular operads. (English summary) **99d:14017**
Hashimoto, Yoshitake (*with* Ohba, Kiyoshi) The moduli space of once punctured elliptic curves with Lagrangian sublattices. **99k:14043**
Kawai, Shingo Isomonodromic deformation of Fuchsian-type projective connections on elliptic curves. **99h:14006**
Koszul, Jean-Louis Fibrés vectoriels sur les courbes elliptiques (d'après M. F. Atiyah) [MR 23 #A896]. [Vector bundles on elliptic curves (after M. F. Atiyah)] (*see* **99f:00036**)
Kurkova, I. A. (*with* Malyshev, V. A.) Martin boundary and elliptic curves. (English summary) **99h:60149**
Kuroki, Gen (*with* Takebe, Takashi) Twisted Wess-Zumino-Witten models on elliptic curves. (English summary) **99g:81070**
Kusaba, Toshio A note on the Riemann-Roch theorem for elliptic curves over $\mathbf{C}$. **99g:14009**
Laszlo, Yves About G-bundles over elliptic curves. **99c:14016**
Lerche, Wolfgang Introduction to Seiberg-Witten theory and its stringy origin. (English summary) (*see* **99e:81005**)
Malyshev, V. A. *see* **Kurkova, I. A., 99h:60149**
Masuda, Takahiro (*with* Suzuki, Hisao) Periods and prepotential of $N = 2$ SU(2) supersymmetric Yang-Mills theory with massive hypermultiplets. (English summary) **99b:81245**
Morgan, John W. *see* **Friedman, Robert David; et al., 99g:14052** *and* **99j:14037**
Morrison, David R. *see* **Aspinwall, Paul S., 99j:14040**
Ohba, Kiyoshi *see* **Hashimoto, Yoshitake, 99k:14043**
Polishchuk, Alexander Poisson structures and birational morphisms associated with bundles on elliptic curves. **99f:14014**
Stevens, Jan Degenerations of elliptic curves and equations for cusp singularities. **99k:32064**
Suzuki, Hisao *see* **Masuda, Takahiro, 99b:81245**
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Witten, Edward *see* **Friedman, Robert David; et al., 99g:14052** *and* **99j:14037**

14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

Ballico, Edoardo (*with* Kim, Seon Jeong) Weierstrass points and ramification loci on singular plane curves. **99b:14030**

— (*with* Keem, Changho) Weierstrass multiple points on algebraic curves and ramified coverings. (English summary) **99d:14022**

Belolipetskiĭ, M. V. Estimates for the number of automorphisms of a Riemann surface. (Russian. Russian summary) **99c:14044**

Broughton, S. A. (*with* Bujalance, Emilio; Costa, Antonio F.; Gamboa, J. M.; Gromadzki, G.) Symmetries of Accola-Maclachlan and Kulkarni surfaces. (English summary) **99f:14036**

Brundu, Michela (*with* Sacchiero, Gianni) On the varieties parametrizing trigonal curves with assigned Weierstrass points. (English summary) **99g:14040**

Bujalance, Emilio *see* **Broughton, S. A.; et al., 99f:14036**

Costa, Antonio F. *see* **Broughton, S. A.; et al., 99f:14036**

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Gómez-Mont, Xavier Integration of algebraic functions and the Riemann-Kempf singularity theorem. **99f:14037**

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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

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14J05 Picard group [see also 14C22, 19A49, 32L05]

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Giraldo, Luis (*with* Sols Lucia, Ignacio) The irregularity of ruled surfaces in $\mathbf{P}^3$. (English summary) **99m:14067**
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— *see also* **Bartocci, Claudio; et al.**, **99e:14038** *and* **99f:32049**
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Boyer, Charles P. (*with* Galicki, Krzysztof; Mann, Benjamin M.; Rees, Elmer G.) Einstein manifolds of positive scalar curvature with arbitrary second Betti number. (English summary) **99c:53041**
— (*with* Galicki, Krzysztof; Mann, Benjamin M.; Rees, Elmer G.) Compact 3-Sasakian 7-manifolds with arbitrary second Betti number. **99b:53066**
de Fernex, Tommaso (*with* Lanteri, Antonio) Ample vector bundles and del Pezzo manifolds. (English summary) **99m:14076**
Galicki, Krzysztof *see* **Boyer, Charles P.; et al., 99b:53066** *and* **99c:53041**
Grinenko, M. M. Birational automorphisms of a three-dimensional dual quadric with the simplest singularity. (Russian. Russian summary) **99a:14021**
Jinzenji, Masao On quantum cohomology rings for hypersurfaces in $\mathbf{CP}^{N-1}$. (English summary) **99f:14067**
Langer, Adrian On twistor curves of small degree. **99d:32034**
Lanteri, Antonio Ample vector bundles with sections vanishing on surfaces of Kodaira dimension zero. (English summary) **99a:14066**
— *see also* **de Fernex, Tommaso, 99m:14076**
Laterveer, Robert Algebraic varieties with small Chow groups. **99k:14013**
Mann, Benjamin M. *see* **Boyer, Charles P.; et al., 99b:53066** *and* **99c:53041**
Mukai, Shigeru Vector bundles and Brill-Noether theory. (English summary) **99g:14043**
— Noncommutativizability of Brill-Noether theory and 3-dimensional Fano varieties. (Japanese) **99b:14012**
Nagel, Jan The generalized Hodge conjecture for the quadratic complex of lines in projective four-space. (English summary) **99m:14020**
Ohno, Masahiro On odd-dimensional projective manifolds with smallest secant varieties. **99a:14059**
Pukhlikov, Aleksandr V. Birational automorphisms of higher-dimensional algebraic varieties. (English summary) **99k:14026**
Rees, Elmer G. *see* **Boyer, Charles P.; et al., 99b:53066** *and* **99c:53041**
Robbiani, Marcello On the arithmetic of isotropic del Pezzo surfaces of degree six. (English summary) **99m:14041**
Siebert, Bernd (*with* Tian, Gang) On quantum cohomology rings of Fano manifolds and a formula of Vafa and Intriligator. **99d:14060**
Tian, Gang *see* **Siebert, Bernd, 99d:14060**
Wiśniewski, Jarosław A. *see* **Andreatta, Marco, 99f:14020**

14J50 Automorphisms of surfaces and higher-dimensional varieties [see also 14E09]

Arakawa, Tatsuya Bounds for the order of automorphism groups of hyperelliptic fibrations. (English summary) **99g:14049**
Cai, Jin-Xing A note on abelian automorphism groups of surfaces of general type. (English summary) **99b:14041**
Chen, Zhijie Best bounds of automorphism groups of hyperelliptic fibrations. (English summary) **99j:14042**
Hosoh, Toshio Automorphism groups of cubic surfaces. (English summary) **99d:14042**
Nakano, Tetsuo Projective threefolds on which SL(2) acts with 2-dimensional general orbits. (English summary) **99c:14054**

Items with secondary classifications in 14J50

Campana, Frédéric Negativity of compact curves in infinite covers of projective surfaces. **99h:14014**
Ganter, Frieda M. Automorphism groups for quasi-homogeneous Gorenstein surface singularities. (English summary) **99c:14049**
Kondō, Shigeyuki Niemeier lattices, Mathieu groups, and finite groups of symplectic automorphisms of $K3$ surfaces. **99i:14042**
— The automorphism group of a generic Jacobian Kummer surface. (English summary) **99i:14043**
Machida, Natsumi (*with* Oguiso, Keiji) On $K3$ surfaces admitting finite non-symplectic group actions. (English summary) **99f:14048**
(Mukai, Shigeru) *see* **Kondō, Shigeyuki, 99i:14042**
Müller, Gerd Finite automorphism groups of cusp singularities. (English summary) **99c:14050**
Oguiso, Keiji *see* **Machida, Natsumi, 99f:14048**

14J60 Vector bundles on surfaces and higher-dimensional varieties [see also 14F05, 32Lxx]

Aprodu, Marian (*with* Brînzănescu, Vasile) Numerical invariants and stability of 2-vector bundles over ruled surfaces. (English summary) **99b:14042**
— (*with* Brînzănescu, Vasile) Existence of stable 2-vector bundles over ruled surfaces. **99k:14067**
Ballico, Edoardo On the dependency loci of sections of semiample vector bundles on projective varieties. (English summary) **99a:14062**
— Rank 2 vector bundles on higher-dimensional projective manifolds. (English summary) **99b:14043**
Biswas, Indranil Chern classes for parabolic bundles. **99k:14068**
— (*with* Nagaraj, D. S.) Parabolic ample bundles. II. Connectivity of zero locus of a class of sections. **99e:14047**
Brambila Paz, Leticia (*with* Muciño-Raymundo, Jesús) Stability of vector bundles in products of varieties. (Spanish. Spanish summary) **99g:14050**
Brînzănescu, Vasile *see* **Aprodu, Marian, 99b:14042** *and* **99k:14067**
Campana, Frédéric (*with* Peternell, Thomas) Rational curves and ampleness properties of the tangent bundle of algebraic varieties. (English summary) **99g:14051**
Casnati, G. (*with* Catanese, F.) Even sets of nodes are bundle symmetric. **99h:14044**
— (*with* Catanese, F.) Errors in the paper: "Even sets of nodes are bundle symmetric" [J. Differential Geom. **47** (1997), no. 2, 237–256; MR 99h:14044]. **99k:14044**
Catanese, F. *see* **Casnati, G., 99h:14044**
Coandă, Iustin Restriction theorems for vector bundles via the methods of Roth and Strano. **99c:14055**
de Fernex, Tommaso Ample vector bundles with sections vanishing along conic fibrations over curves. (English summary) **99f:14056**

— (*with* Lanteri, Antonio) Ample vector bundles and del Pezzo manifolds. (English summary) **99m:14076**
Friedman, Robert David (*with* Morgan, John W.; Witten, Edward) Vector bundles and F theory. (English summary) **99g:14052**
— ★ Algebraic surfaces and holomorphic vector bundles. (English summary) **99c:14056**
Gasparim, Elizabeth Rank two bundles on the blow-up of $\mathbf{C}^2$. (English summary) **99a:14063**
Ghalim, Rachid Une involution sur la variété des 2-instantons. [An involution on the manifold of 2-instantons] **99f:14057**
Harris, Adam A uniformity criterion for vector bundles on complex projective spaces. **99e:14048**
Ischebeck, F. (*with* Ojanguren, M.) Vector bundles on real affine varieties. (Italian summary) **99d:14043**
Karpov, B. V. (*with* Nogin, D. Yu.) Three-block exceptional sets on del Pezzo surfaces. (Russian. Russian summary) **99k:14069**
Kim, Ho Il Moduli spaces of bundles mod Picard groups on some elliptic surfaces. (English summary) **99a:14064**
Kuleshov, S. A. Rigid sheaves on rational surfaces. (Russian) **99b:14044**
Kwieciński, Michał MacPherson's graph construction. **99a:14065**
Lange, Herbert A vector bundle of rank 2 on $\mathbf{P}_1 \times \mathbf{P}_3$. **99m:14077**
Lanteri, Antonio Ample vector bundles with sections vanishing on surfaces of Kodaira dimension zero. (English summary) **99a:14066**
— Ample bundles and special varieties. (Italian. English summary) **99f:14058**
— *see also* **de Fernex, Tommaso, 99m:14076**
Maeda, Hidetoshi Ample vector bundles of small curve genera. (English summary) **99a:14067**
Morgan, John W. *see* **Friedman, Robert David; et al., 99g:14052**
Muciño-Raymundo, Jesús *see* **Brambila Paz, Leticia, 99g:14050**
Nagaraj, D. S. *see* **Biswas, Indranil, 99e:14047**
Nogin, D. Yu. *see* **Karpov, B. V., 99k:14069**
Ojanguren, M. *see* **Ischebeck, F., 99d:14043**
Ottaviani, Giorgio Real and complex 't Hooft instanton bundles over $\mathbf{P}^{2n+1}(\mathbf{C})$. (English summary) **99k:14070**
Peternell, Thomas *see* **Campana, Frédéric, 99g:14051**
Raynaud, Michel Familles de fibrés vectoriels sur une surface de Riemann (d'après C. S. Seshadri, M. S. Narasimhan et D. Mumford). [Families of vector bundles on a Riemann surface (after C. S. Seshadri, M. S. Narasimhan and D. Mumford)] (*see* **99f:00042**)
Shepherd-Barron, N. I. Semi-stability and reduction mod p. **99c:14057**
Takahashi, Kazuyoshi (*with* Terakawa, Hiroyuki) Generalized adjunction of k-very ample vector bundles on algebraic surfaces. (English summary) **99g:14053**
Terakawa, Hiroyuki *see* **Takahashi, Kazuyoshi, 99g:14053**
Witten, Edward *see* **Friedman, Robert David; et al., 99g:14052**
Zubé, S. Exceptional vector bundles on Enriques surfaces. (Russian. Russian summary) **99g:14054**

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Aprodu, Marian An Appell-Humbert theorem for hyperelliptic surfaces. **99m:14065**
Aure, Alf (*with* Decker, Wolfram; Hulek, Klaus; Popescu, Sorin; Ranestad, Kristian) Syzygies of abelian and bielliptic surfaces in $\mathbf{P}^4$. **99a:14049**
Ballico, Edoardo On the ampleness of line bundles on blown-up complex surfaces. **99g:14006**
— On the birational structure of exceptional irreducible components of moduli schemes of rank 2 vector bundles on algebraic surfaces with negative Kodaira dimension. (English summary) **99c:14014**
— (*with* Hefez, Abramo) Algebraic morphisms into Grassmannians: differential geometry and Frobenius. (English summary) **99g:14063**
Bartocci, Claudio (*with* Bruzzo, Ugo; Hernández Ruipérez, Daniel) A hyper-Kähler Fourier transform. (English summary) **99f:32049**
Bershadsky, Michael (*with* Johansen, Andrei; Pantev, Tony G.; Sadov, Vladimir; Vafa, Cumrun) F-theory, geometric engineering and $N = 1$ dualities. (English summary) **99b:81178**
— (*with* Johansen, Andrei; Pantev, Tony G.; Sadov, Vladimir) On four-dimensional compactifications of F-theory. (English summary) **99d:81107**
Biswas, Indranil Vector bundles with holomorphic connection over a projective manifold with tangent bundle of nonnegative degree. **99a:32020**
Bøgvad, Rikard Splitting of the direct image of sheaves under the Frobenius. (English summary) **99h:14051**
Brambila Paz, Leticia (*with* Muciño-Raymundo, Jesús) Stability of the tangent bundle, endomorphisms and vector fields. (Spanish. Spanish summary) **99i:14013**
Bridgeland, Tom Fourier-Mukai transforms for elliptic surfaces. (English summary) **99f:14013**
Bruzzo, Ugo *see* **Bartocci, Claudio; et al., 99f:32049**
de Cataldo, Mark Andrea A. Effective nonvanishing, effective global generation. (English and French summaries) **99m:14007**
Decker, Wolfram *see* **Aure, Alf; et al., 99a:14049**
Göttsche, Lothar (*with* Hirschowitz, André) Weak Brill-Noether for vector bundles on the projective plane. **99i:14015**
Hefez, Abramo *see* **Ballico, Edoardo, 99g:14063**
Hernández Ruipérez, Daniel *see* **Bartocci, Claudio; et al., 99f:32049**
Hirschowitz, André *see* **Göttsche, Lothar, 99i:14015**
Hulek, Klaus *see* **Aure, Alf; et al., 99a:14049**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Uniruled projective manifolds with irreducible reductive G-structures. **99h:32034**
— Stability of tangent bundles of low-dimensional Fano manifolds with Picard number 1. **99i:14045**
Johansen, Andrei *see* **Bershadsky, Michael; et al., 99b:81178** *and* **99d:81107**
Karpov, B. V. Algebro-geometric aspects of S-duality. (Russian. Russian summary) **99g:14012**
Kim, Ho Il Moduli spaces of stable vector bundles on Enriques surfaces. (English summary) **99e:14008**
Kuleshov, S. A. Exceptional and rigid sheaves on surfaces with anticanonical class without base components. (English summary) **99c:14028**
— On the moduli variety of stable bundles on a quadric. (Russian. Russian summary) **99k:14019**
Le Potier, J. Problème de Brill-Noether et groupe de Picard de l'espace de modules des faisceaux semi-stables sur le plan projectif. [Brill-Noether problem and Picard group of the moduli space of semistable sheaves on the projective plane] **99k:14020**
Li, Jun[1] Compactification of moduli of vector bundles over algebraic surfaces. (English summary) **99e:14009**
— The first two Betti numbers of the moduli spaces of vector bundles on surfaces. **99a:14020**
Masuda, Kayo Moduli of equivariant algebraic vector bundles over a product of affine varieties. **99b:14011**
Masuda, Mikiya (*with* Moser-Jauslin, Lucy; Petrie, Ted) Equivariant algebraic vector bundles over cones with smooth one-dimensional quotient. **99k:14079**
Mok, Ngaiming *see* **Hwang, Jun-Muk, 99h:32034**
Moser-Jauslin, Lucy *see* **Masuda, Mikiya; et al., 99k:14079**
Muciño-Raymundo, Jesús *see* **Brambila Paz, Leticia, 99i:14013**
Nakajima, Hiraku Gauge theory on resolutions of simple singularities and affine Lie algebras. **99c:32056**
O'Grady, Kieran G. Moduli of vector-bundles on surfaces. **99h:14009**
Pantev, Tony G. *see* **Bershadsky, Michael; et al., 99b:81178** *and* **99d:81107**
Petrie, Ted *see* **Masuda, Mikiya; et al., 99k:14079**
Polishchuk, Alexander Poisson structures and birational morphisms associated with bundles on elliptic curves. **99f:14014**
Popescu, Sorin *see* **Aure, Alf; et al., 99a:14049**
Ranestad, Kristian *see* **Aure, Alf; et al., 99a:14049**
Sadov, Vladimir *see* **Bershadsky, Michael; et al., 99b:81178** *and* **99d:81107**
Soulé, Christophe Hermitian vector bundles on arithmetic varieties. **99e:14030**
Tikhomirov, A. A. The main component of the moduli space of mathematical instanton vector bundles on $\mathbf{P}^3$. **99e:14012**
Vafa, Cumrun *see* **Bershadsky, Michael; et al., 99b:81178**
Vedernikov, V. K. A family of rank-2 mathematical instanton bundles on $\mathbf{P}_3$. (English summary) **99e:14013**
Walter, Charles Harold Pfaffian subschemes. (English summary) **99f:14064**
— Irreducibility of moduli spaces of vector bundles on birationally ruled surfaces. (English summary) **99j:14011**
Yoshioka, Kōta A note on the universal family of moduli of stable sheaves. **99b:14014**

14J70 Hypersurfaces

Amerik, Ekaterina On a problem of Noether-Lefschetz type. (English summary) **99f:14059**
Harris, Joseph Daniel (*with* Mazur, Barry; Pandharipande, Rahul) Hypersurfaces of low degree. **99j:14043**
Mazur, Barry *see* **Harris, Joseph Daniel; et al., 99j:14043**
Pandharipande, Rahul *see* **Harris, Joseph Daniel; et al., 99j:14043**
Trifogli, C. Focal loci of algebraic hypersurfaces: a general theory. (English summary) **99b:14045**
Voisin, Claire A correction: "On a conjecture of Clemens on rational curves on hypersurfaces" [J. Differential Geom. **44** (1996), no. 1, 200–213; MR 97j:14047]. **99m:14078**
Wahl, Jonathan On cohomology of the square of an ideal sheaf. (English summary) **99b:14046**
— Nodes on sextic hypersurfaces in $\mathbf{P}^3$. **99g:14055**

Items with secondary classifications in 14J70

Chen, Xi[2] Unirationality of Fano varieties. **99b:14039**
Ciliberto, Ciro (*with* Miranda, Rick) Interpolation on curvilinear schemes. **99b:14047**
Iguchi, Kazumoto Universal algebraic varieties and ideals in physics: field theory on algebraic varieties. (English summary) **99a:14075**
Jinzenji, Masao On quantum cohomology rings for hypersurfaces in $\mathbf{CP}^{N-1}$. (English summary) **99f:14067**
L'vovskiĭ, S. M. On inflection points, monomial curves, and hypersurfaces containing projective curves. **99e:14033**
Miranda, Rick *see* **Ciliberto, Ciro, 99b:14047**
du Plessis, A. A. (*with* Wall, C. T. C.) Versal deformations in spaces of polynomials of fixed weight. (English summary) **99k:14005**
Wall, C. T. C. *see* **du Plessis, A. A., 99k:14005**

14J99 None of the above, but in this section

Cai, Jin-Xing Irregularity of certain algebraic fiber spaces. (English summary) **99a:14068**
Ciliberto, Ciro (*with* Miranda, Rick) Interpolation on curvilinear schemes. **99b:14047**
D'Ambros, Paola (*with* Lanteri, Antonio) Two comparison theorems for special varieties. **99g:14056**
Eggar, M. H. A natural occurrence of non-generic behaviour for polynomials.
Ignatenko, V. F. Algebraic surfaces with planes of skew symmetry. (Russian. English, Russian and Ukrainian summaries) **99f:14060**
Ingalls, Colin Quantizable orders over surfaces. (English summary) **99h:14045**
Lanteri, Antonio *see* **D'Ambros, Paola, 99g:14056**
Michelacakis, N. J. Projective flat manifolds of cyclic and dihedral holonomy. (English summary) **99g:14057**
Miranda, Rick *see* **Ciliberto, Ciro, 99b:14047**
Nguyen Khac Viet On families of curves over $\mathbf{P}^1$ with small number of singular fibres. (English and French summaries) **99j:14044**
Önsiper, Hurşit A note on degenerations of fibered surfaces. **99e:14049**
Starnone, Federico Algebraic surfaces with canonical curves. (Italian)
Zhang, Qi[1] Global holomorphic one-forms on projective manifolds with ample canonical bundles. **99k:14071**

Items with secondary classifications in 14J99

Bogomolov, Fedor A. (*with* Katzarkov, Ludmil) Symplectic four-manifolds and projective surfaces. (English summary) **99k:57055**
Fukuma, Yoshiaki A lower bound for $K_X L$ of quasi-polarized surfaces (X, L) with non-negative Kodaira dimension. (English summary) **99m:14008**
Katzarkov, Ludmil (*with* Ramachandran, Mohan) On the universal coverings of algebraic surfaces. (English and French summaries) **99h:14015**
— *see also* **Bogomolov, Fedor A., 99k:57055**
Peters, Jörg (*with* Reif, Ulrich) The 42 equivalence classes of quadratic surfaces in affine n-space. (English summary) **99e:14063**
Ramachandran, Mohan *see* **Katzarkov, Ludmil, 99h:14015**
Reif, Ulrich *see* **Peters, Jörg, 99e:14063**
Serre, Jean-Pierre Critère de rationalité pour les surfaces algébriques (d'après K. Kodaira). [Rationality criterion for algebraic surfaces (after K. Kodaira)] (*see* **99f:00036**)
Terakawa, Hiroyuki On the Kawamata-Viehweg vanishing theorem for a surface in positive characteristic. (English summary) **99k:14031**
Tsai, I-Hsun Chow varieties and finiteness theorems for dominant maps. **99f:14017**

14Kxx Abelian varieties and schemes

14K02 Isogeny

Graftieaux, Philippe Paramètres algébriques de groupes formels et critères d'isogénie. (English and French summaries) [Algebraic parameters for formal groups and isogeny criteria] **99i:14047**
Marchisio, Marina Rosanna Abelian surfaces and products of elliptic curves. (Italian summary) **99k:14072**

Items with secondary classifications in 14K02

Gonzàlez Rovira, Josep On the p-rank of an abelian variety and its endomorphism algebra. (English summary) **99i:14049**

14K05 Algebraic theory

Bennama, H. (*with* Bertin, José) Remarques sur les varietés abéliennes avec un automorphisme d'ordre premier. [Remarks on abelian varieties with a first-order automorphism] **99e:14050**
Bertin, José *see* **Bennama, H., 99e:14050**
Brambila Paz, Leticia (*with* Hidalgo-Solís, Laura) A restriction theorem. (Spanish. Spanish summary) **99i:14048**
Buium, Alexandru Intersection multiplicities on abelian varieties. **99f:14061**
Cartier, Pierre Dualité des variétés abéliennes [MR **21** #4161]. [Duality of abelian varieties] (*see* **99f:00036**)
Colombo, Elisabetta (*with* Pirola, Gian Pietro) An intersection result for families of abelian varieties. (English summary) **99c:14058**
Hidalgo-Solís, Laura *see* **Brambila Paz, Leticia, 99i:14048**
Hurtubise, Jacques C. (*with* Markman, E.) Rank 2-integrable systems of Prym varieties. (English summary) **99k:14073**
Markman, E. *see* **Hurtubise, Jacques C., 99k:14073**
Néron, André Modèles p-minimaux des variétés abéliennes. [p-minimal models of abelian varieties] (*see* **99f:00039**)
— Variétés abéliennes (d'après A. Weil). [Abelian varieties (after A. Weil)] (*see* **99f:00035**)
Pirola, Gian Pietro *see* **Colombo, Elisabetta, 99c:14058**
Rubei, Elena Projective normality of abelian varieties with a line bundle of type $(2, \cdots)$. (Italian summary) **99k:14074**
Samuel, Pierre Variété de Picard et groupe de Severi (d'après A. Néron). [Picard variety and Severi group (after A. Néron)] (*see* **99f:00034**)
Shimura, Goro Fonctions automorphes et variétés abéliennes [MR **21** #6371]. [Automorphic functions and abelian varieties] (*see* **99f:00036**)
Weil, André Variété de Picard et variétés jacobiennes. [Picard variety and Jacobian varieties] (*see* **99f:00034**)
— Multiplication complexe des fonctions abéliennes. [Complex multiplication of abelian functions] (*see* **99f:00035**)

Items with secondary classifications in 14K05

Ballico, Edoardo Noncomplete linear systems on elliptic curves and abelian varieties: addendum to a paper by Ch. Birkenhake: "Linear systems on projective spaces" [Manuscripta Math. **88** (1995), no. 2, 177–184; MR 96h:14003]. (English summary) **99a:14006**
Bauer, Thomas On the cone of curves of an abelian variety. (English summary) **99i:14005**
(Birkenhake, Christina) *see* **Ballico, Edoardo, 99a:14006**
Buium, Alexandru ★ Differential algebra and Diophantine geometry. (English summary) **99k:12010**
Ciliberto, Ciro (*with* Pedrini, Claudio) Real abelian varieties and real algebraic curves. **99a:14080**
Gross, Mark (*with* Popescu, Sorin) Equations of $(1, d)$-polarized abelian surfaces. **99d:14046**
Marchisio, Marina Rosanna Abelian surfaces and products of elliptic curves. (Italian summary) **99k:14072**
Milne, J. S. Lefschetz classes on abelian varieties. **99m:14017**
Oort, Frans (*with* Zarkhin, Yu. G.) Complex tori. **99d:14044**
Oxbury, William (*with* Pauly, Christian) Heisenberg invariant quartics and $\mathcal{SU}_C(2)$ for a curve of genus four. **99k:14022**
— Spin Verlinde spaces and Prym theta functions. **99m:14029**
Pauly, Christian *see* **Oxbury, William, 99k:14022**
Pedrini, Claudio *see* **Ciliberto, Ciro, 99a:14080**
Popescu, Sorin *see* **Gross, Mark, 99d:14046**
Quer, Jordi La classe de Brauer de l'algèbre d'endomorphismes d'une variété abélienne modulaire. (English and French summaries) [The Brauer class of the endomorphism algebra of a modular abelian variety] **99j:14045**
Raynaud, Michel Caractéristique d'Euler-Poincaré d'un faisceau et cohomologie des variétés abéliennes. [Euler-Poincaré characteristic of a sheaf and cohomology of abelian varieties] (*see* **99f:00041**)
Saitō, Masa-Hiko On Shioda's Mordell-Weil lattices of higher genus fibrations. (English summary) (*see* **99g:00046**)
Zarkhin, Yu. G. *see* **Oort, Frans, 99d:14044**

14K10 Algebraic moduli, classification

Birkenhake, Christina (*with* Lange, Herbert) Parameter spaces for complex tori with endomorphism structure. (English summary) **99e:14051**
Cartier, Pierre Théorie des groupes, fonctions théta et modules des variétés abéliennes. [Group theory, theta functions and moduli of abelian varieties] (*see* **99f:00042**)
Lange, Herbert *see* **Birkenhake, Christina, 99e:14051**
Li, Ke-Zheng (*with* Oort, Frans) ★ Moduli of supersingular abelian varieties. **99e:14052**
Nakamura, Iku Compactification of the moduli of abelian varieties over $\mathbf{Z}[\zeta_N, 1/N]$. (English and French summaries) **99k:14075**
Ogata, Shoetsu (*with* Saitō, Masa-Hiko) Signature defects and eta functions of degenerations of abelian varieties. **99c:14059**
Oort, Frans (*with* Zarkhin, Yu. G.) Complex tori. **99d:14044**
— *see also* **Li, Ke-Zheng, 99e:14052**
Saitō, Masa-Hiko *see* **Ogata, Shoetsu, 99c:14059**
Sankaran, G. K. Moduli of polarised abelian surfaces. (English summary) **99c:14060**
Shafarevich, Igor R. Families of reducible abelian surfaces. (Russian) **99c:14061**
Zarkhin, Yu. G. *see* **Oort, Frans, 99d:14044**

Items with secondary classifications in 14K10

Birkenhake, Christina Complex structures contained in classical groups. (English summary) **99h:32038**
Debarre, Olivier Trisecant lines and Jacobians. II. (English summary) **99a:14038**
Gritsenko, V. A. Precious Siegel modular forms of genus two. (English summary) **99j:11070**
— (*with* Hulek, Klaus) Commutator coverings of Siegel threefolds. **99e:11075**
Gross, Mark (*with* Popescu, Sorin) Equations of $(1, d)$-polarized abelian surfaces. **99d:14046**
Hulek, Klaus *see* **Gritsenko, V. A., 99e:11075**
Izadi, E. Density and completeness of subvarieties of moduli spaces of curves or abelian varieties. **99m:14048**
de Jong, Aise Johan (*with* Oort, Frans) On extending families of curves. **99f:14028**
Oort, Frans *see* **de Jong, Aise Johan, 99f:14028**
Popescu, Sorin *see* **Gross, Mark, 99d:14046**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Fujimori, Masami A remark on naive height of a polarized abelian variety and its applications. **99a:14069**
Gonzàlez Rovira, Josep On the p-rank of an abelian variety and its endomorphism algebra. (English summary) **99i:14049**
Kamienny, Sheldon (*with* Wetherell, Joseph L.) On torsion in abelian varieties. **99d:14045**
— (*with* Wetherell, Joseph L.) A correction to: "Torsion in abelian varieties" [Comm. Algebra **26** (1998), no. 5, 1675–1678; MR 99d:14045]. **99k:14076**
Krir, Mohamed Défaut d'exactitude des modèles de Néron toriques sur un corps local. (English summary) [Exactness defect for toric Néron models over a local field] **99k:14076**
Michel, Philippe Le range de familles de variétés abéliennes. [The rank of families of abelian varieties] **99e:14053**
Quer, Jordi La classe de Brauer de l'algèbre d'endomorphismes d'une variété abélienne modulaire. (English and French summaries) [The Brauer class of the endomorphism algebra of a modular abelian variety] **99j:14045**
Tankeev, S. G. On Frobenius traces. (Russian. Russian summary) **99h:14046**
— Algebraic cycles on a simple $4p$-dimensional abelian variety over a number field. (English summary) **99m:14079**
Tate, John WC-groups over p-adic fields [MR **21** #4162]. (*see* **99f:00036**)
Voloch, José Felipe Periods of ordinary abelian varieties in characteristic p. (English summary) **99j:14046**
Weber, Hermann-Josef Hyperelliptic simple factors of $J_0(N)$ with dimension at least 3. (English summary) **99e:14054**
Welters, Gerald E. Abelian varieties and the class invariant homomorphism. (English summary) **99m:14080**
Wetherell, Joseph L. *see* **Kamienny, Sheldon, 99d:14045**

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Fishman, V. M. The structure of the Tate module of the Jacobian variety of a curve with potentially good reduction. (Russian. Russian summary) **99b:14023**
Hashimoto, Ki-ichiro (*with* Tsunogai, Hiroshi) On the Sato-Tate conjecture for QM-curves of genus two. (English summary) **99m:11072**
Künnemann, Klaus Projective regular models for abelian varieties, semistable reduction, and the height pairing. **99m:14043**
Lang, Serge Les formes bilinéaires de Néron et Tate [MR **31** #1252]. [The bilinear forms of Néron and Tate] (*see* **99f:00040**)
Scanlon, Thomas Warren p-adic distance from torsion points of semi-abelian varieties. (English summary) **99h:14027**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Subgroups of inertia groups arising from abelian varieties. (English summary) **99j:11069**
— (*with* Zarkhin, Yu. G.) Semistable reduction of abelian varieties over extensions of small degree. (English summary) **99k:11085**

— (*with* Zarkhin, Yu. G.) Connectedness extensions for abelian varieties. **99d:11065**
Tsunogai, Hiroshi *see* **Hashimoto, Ki-ichiro, 99m:11072**
Underwood, Robert Gene Isogenies of polynomial formal groups. (English summary) **99m:14084**
Werner, Annette Local heights on abelian varieties and rigid analytic uniformization. (English summary) **99k:11086**
Zarkhin, Yu. G. *see* **Silverberg, Alice, 99d:11065; 99j:11069** *and* **99k:11085**
Zhang, Shou-Wu Equidistribution of small points on abelian varieties. **99e:14032**
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14K20 Analytic theory; abelian integrals and differentials

Items with secondary classifications in 14K20

Gavrilov, Lubomir Modules of Abelian integrals. (English summary) **99e:32064**
Ghezelbash, Amir M. Periods and prepotential in $N = 2$ supersymmetric E_6 Yang-Mills theory. (English summary) **99c:81238**
Klein, Christian (*with* Richter, Olaf) The Ernst equation and the Riemann-Hilbert problem on hyperelliptic Riemann surfaces. (English summary) **99c:83014b**
— (*with* Richter, Olaf) Explicit solution of Riemann-Hilbert problems for the Ernst equation. (English summary) **99c:83014a**
Lee, Min Ho[1] Generalized Jacobi forms and abelian schemes over arithmetic varieties. (English summary) **99e:11057**
Richter, Olaf *see* **Klein, Christian, 99c:83014a** *and* **99c:83014b**
Shipman, Barbara A. Monodromy near the singular level set in the sl(2, **C**) Toda lattice. (English summary) **99c:58081**
Smirnov, A. O. 3-elliptic solutions of the sine-Gordon equation. (Russian. Russian summary) **99b:14031**
Zarkhin, Yu. G. p-adic abelian integrals and commutative Lie groups. (English summary) **99e:14026**

14K22 Complex multiplication [see also 11G15]

Ruppert, Wolfgang M. Two-dimensional complex tori with multiplication by $\sqrt{d}$. (English summary) **99m:14081**

Items with secondary classifications in 14K22

Besser, Amnon Elliptic fibrations of $K3$ surfaces and QM Kummer surfaces. **99f:14047**
Colmez, Pierre Sur la hauteur de Faltings des variétés abéliennes à multiplication complexe. (English summary) [On the Faltings height of abelian varieties with complex multiplication] **99e:11074**
Edixhoven, Bas Special points on the product of two modular curves. (English summary) **99k:11087**
Oort, Frans (*with* Zarkhin, Yu. G.) Complex tori. **99d:14044**
Polishchuk, Alexander (*with* Zaslow, Eric) Categorical mirror symmetry: the elliptic curve. (English summary) **99j:14034**
Schoen, Chad Addendum to: "Hodge classes on self-products of a variety with an automorphism" [Compositio Math. **65** (1988), no. 1, 3–32; MR 89c:14013]. (English summary) **99m:14021**
Shimura, Goro ★ Abelian varieties with complex multiplication and modular functions. (English summary) **99e:11076**
Zarkhin, Yu. G. *see* **Oort, Frans, 99d:14044**
Zaslow, Eric *see* **Polishchuk, Alexander, 99j:14034**

14K25 Theta functions

Gross, Mark (*with* Popescu, Sorin) Equations of $(1, d)$-polarized abelian surfaces. **99d:14046**
Hammond, William F. Special theta relations. **99a:14070**
Müller, Werner[1] (*with* Schmidt, Martin U.; Schrader, Robert) Theta functions for infinite period matrices. **99a:14071**
Popescu, Sorin *see* **Gross, Mark, 99d:14046**
Romanovskiĭ, R. K. (*with* Sadovnichuk, S. G.) A special addition theorem for theta functions, and soliton equations. (Russian) (*see* **99a:00019**)
Sadovnichuk, S. G. *see* **Romanovskiĭ, R. K., (99a:00019)**
Schmidt, Martin U. *see* **Müller, Werner[1]; et al., 99a:14071**
Schrader, Robert *see* **Müller, Werner[1]; et al., 99a:14071**
Weil, André Théorèmes fondamentaux de la théorie des fonctions thêta (d'après des mémoires de Poincaré et Frobenius). [Fundamental theorems of the theory of theta functions (after memoirs by Poincaré and Frobenius)] (*see* **99f:00033**)

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Berndt, Rolf (*with* Schmidt, Ralf) ★ Elements of the representation theory of the Jacobi group. (English summary) **99i:11030**
Cartier, Pierre Théorie des groupes, fonctions théta et modules des variétés abéliennes. [Group theory, theta functions and moduli of abelian varieties] (*see* **99f:00042**)
Gawędzki, Krzysztof (*with* Tran-Ngoc-Bich, Pascal) Self-duality of the SL_2 Hitchin integrable system at genus 2. (English summary) **99g:14011**
Gorskiĭ, A. S. (*with* Marshakov, A.; Mironov, A. D.; Morozov, A. Yu.) RG equations from Whitham hierarchy. (English summary) **99h:58086**
Jorgenson, Jay (*with* Kramer, Jürg) Towards the arithmetic degree of line bundles on abelian varieties. (English summary) **99h:11047**
Kramer, Jürg *see* **Jorgenson, Jay, 99h:11047**
Marini, Giambattista A geometrical proof of Shiota's theorem on a conjecture of S. P. Novikov. (English summary) **99a:14039**
Marshakov, A. *see* **Gorskiĭ, A. S.; et al., 99h:58086**
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Qiao, Zhi Jun r-matrices and algebraic geometry solutions of integrable symplectic maps. (Chinese. Chinese summary)
Schmidt, Ralf *see* **Berndt, Rolf, 99i:11030**
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Yamada, Akira Positive differentials, theta functions and Hardy H^2 kernels. (English summary) **99h:30009**

14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

Maeda, Takashi[1] Intermediate Jacobians of projective plane bundles over a smooth projective surface. (English summary) **99e:14055**
Nagel, Jan The Abel-Jacobi map for complete intersections. **99c:14062**
Sitaramayya, M. *see* **Subramanian Moosath, K. S., 99d:14047**
Subramanian Moosath, K. S. (*with* Sitaramayya, M.) Picard bundles as subbundles. **99d:14047**

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Green, Mark L. Higher Abel-Jacobi maps. **99k:14012**
Leroy, Sandrine Variétés d'Albanese supérieures d'une variété kählérienne compacte. (English and French summaries) [Higher Albanese manifolds of a compact Kähler manifold] **99k:32047**
Oh, Kyungho *see* **Arapura, Donu, 99g:14008**
Srinivas, Vasudevan *see* **Barbieri Viale, Luca, 99k:14010**

14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Crupi, Marilena (*with* Restuccia, Gaetana) Integrable derivations and formal groups in unequal characteristic. (English summary) **99m:14082**
Fresse, Benoit Lie theory of formal groups over an operad. **99c:14063**
de Jong, Aise Johan Barsotti-Tate groups and crystals. **99i:14051**
— Erratum to: "Crystalline Dieudonné module theory via formal and rigid geometry" [Inst. Hautes Études Sci. Publ. Math. No. **82** (1995), 5–96 (1996); MR 97f:14047]. **99i:14050**
Koch, Alan Lifting Witt subgroups to characteristic zero. (English summary) **99f:14062**
Lazard, Michel Lois de groupes et analyseurs. [Group laws and analyzers] (*see* **99f:00035**)
Mantovan, Elena Additive extensions of a Barsotti-Tate group. (English summary) **99m:14083**
Restuccia, Gaetana *see* **Crupi, Marilena, 99m:14082**
Serre, Jean-Pierre Groupes p-divisibles (d'après J. Tate). [p-divisible groups (after J. Tate)] (*see* **99f:00042**)
Underwood, Robert Gene Isogenies of polynomial formal groups. (English summary) **99m:14084**

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Ando, Matthew (*with* Morava, Jack; Sadofsky, Hal) Completions of $\mathbf{Z}/(p)$-Tate cohomology of periodic spectra. (English summary) **99e:55016**
Boutot, Jean-François Uniformisation p-adique des variétés de Shimura. (French summary) [p-adic uniformization of Shimura varieties] **99i:14028**
Faltings, Gerd Integral crystalline cohomology over very ramified valuation rings. (English summary) **99e:14022**
Fesenko, Ivan B. *see* **Vostokov, S. V., (99a:00015)**
Graftieaux, Philippe Paramètres algébriques de groupes formels et critères d'isogénie. (English and French summaries) [Algebraic parameters for formal groups and isogeny criteria] **99i:14047**
Green, Barry (*with* Matignon, Michel) Order p automorphisms of the open disc of a p-adic field. (English summary) **99j:13017**
Kottwitz, Robert E. Isocrystals with additional structure. II. (English summary) **99e:20061**
Lenart, Cristian Symmetric functions, formal group laws, and Lazard's theorem. (English summary) **99i:05203**
— Formal group-theoretic generalizations of the necklace algebra, including a q-deformation. (English summary) **99b:05013**
Li, Ke-Zheng (*with* Oort, Frans) ★ Moduli of supersingular abelian varieties. **99e:14052**
Matignon, Michel *see* **Green, Barry, 99j:13017**
Morava, Jack *see* **Ando, Matthew; et al., 99e:55016**
Oort, Frans *see* **Li, Ke-Zheng, 99e:14052**
Restuccia, Gaetana (*with* Tyc, Andrzej) Regularity in characteristic p of the invariants of (co)actions of certain finite Hopf algebras and formal groups. (Italian. English summary) **99d:16047**
Sadofsky, Hal *see* **Ando, Matthew; et al., 99e:55016**
Tyc, Andrzej *see* **Restuccia, Gaetana, 99d:16047**
Vostokov, S. V. (*with* Fesenko, Ivan B.) Elliptic curves and formal groups. (Russian) (*see* **99a:00015**)

14L10 Group varieties

Merkur'ev, A. S. K-theory and algebraic groups. **99m:14085**
Rauzy, Gérard Points transcendants sur les variétés de groupe (d'après Serge Lang) [MR **32** #7507]. [Transcendental points on group varieties (after Serge Lang)] (*see* **99f:00040**)

Items with secondary classifications in 14L10

Springer, T. A. ★ Linear algebraic groups. (English summary) **99h:20075**

14L15 Group schemes

Breuil, Christophe Schémas en groupe et modules filtrés. (English and French summaries) [Group schemes and filtered modules] **99m:14086**
Chevalley, Claude Certains schémas de groupes semi-simples. [Certain semisimple group schemes] (*see* **99f:00038**)
Friedlander, Eric M. Geometry of infinitesimal group schemes. **99i:14052**
Ohno, Toshiaki On the deformations of Witt groups to twisted tori. **99d:14048**
Sekiguchi, Tsutomu (*with* Suwa, Noriyuki) Examples of deformations of algebraic groups and formal algebraic groups. (Japanese) **99m:14087**
Suwa, Noriyuki *see* **Sekiguchi, Tsutomu, 99m:14087**
Takeda, Yoshifumi Groups of Russell type over a curve. (English summary) **99i:14053**
Tate, John Finite flat group schemes. (*see* **99k:11004**)
Weigel, Thomas On the profinite completion of arithmetic groups of split type. **99d:14049**

Items with secondary classifications in 14L15

Bertapelle, Alessandra Weil restriction in the context of formal and rigid geometry. **99h:11067**
Welters, Gerald E. Abelian varieties and the class invariant homomorphism. (English summary) **99m:14080**
Wenzel, Christian On the Chow ring of a flag. (English summary) **99a:14004**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Items with secondary classifications in 14L17

Müller, Gerd Automorphisms of simplicial complexes and their Stanley-Reisner rings. **99k:13032**

14L27 Automorphism groups [see also 14E09]

Items with secondary classifications in 14L27

Ivanenko, Nazar Some classes of linearizable polynomial maps. (English summary) **99a:14023**
Kurth, Alexandre Equivariant polynomial automorphisms of Θ-representations. (English summary) **99g:20080**
Nakano, Tetsuo Projective threefolds on which SL(2) acts with 2-dimensional general orbits. (English summary) **99c:14054**

14L30 Group actions on varieties or schemes (quotients) [see also 14D25]

A'Campo-Neuen, Annette (*with* Hausen, Jürgen) Quotients of toric varieties by the action of a subtorus. (English summary) **99m:14088**
Arzhantsev, I. V. On the normality of closures of spherical orbits. (Russian) **99a:14072**
— On the actions of reductive groups with a one-parameter family of spherical orbits. (Russian. Russian summary) **99b:14048**
Białynicki-Birula, A. (*with* Święcicka, J.) A recipe for finding open subsets of vector spaces with a good quotient. **99g:14058**
— Finiteness of the number of maximal open subsets with good quotients. (English summary) **99m:14089**
Brion, Michel The behaviour at infinity of the Bruhat decomposition. (English summary) **99b:14049**
Broer, Abraham Decomposition varieties in semisimple Lie algebras. (English summary) **99k:14077**
— Normal nilpotent varieties in F_4. **99e:14056**
Đoković, Dragomir Ž. Note on rational points in nilpotent orbits of semisimple groups. (English summary) **99b:14050**
Finston, David R. (*with* Walcher, Sebastian) On a class of additive group actions on affine three-space. (English summary) **99i:14054**
Greuel, Gert-Martin (*with* Pfister, Gerhard) Geometric quotients of unipotent group actions. II. **99k:14078**
Grosshans, Frank D. Invariant theory, orbits and non-decomposable quadruples of subspaces having non-zero defect. (English summary) **99h:14047**
Gyoja, Akihiko A remark on invariant differential operators on prehomogeneous vector spaces. (*see* **99a:11006**)
Hausen, Jürgen *see* **A'Campo-Neuen, Annette, 99m:14088**
Kim, Minhyong On reductive group actions and fixed points. (English summary) **99a:14073**
Koras, M. (*with* Russell, Peter) Contractible threefolds and $\mathbf{C}^*$-actions on $\mathbf{C}^3$. (English summary) **99e:14057**
Kordonskiĭ, V. È. (*with* Tevelëv, E. A.) Unstable linear actions of connected semisimple complex algebraic groups. (Russian. Russian summary) **99h:14048**
Luna, D. Grosses cellules pour les variétés sphériques. [Large cells for spherical varieties] **99g:14059**
Masuda, Mikiya (*with* Moser-Jauslin, Lucy; Petrie, Ted) Equivariant algebraic vector bundles over cones with smooth one-dimensional quotient. **99k:14079**
— (*with* Moser-Jauslin, Lucy; Petrie, Ted) Invariants of equivariant algebraic vector bundles and inequalities for dominant weights. **99c:14064**
Moser-Jauslin, Lucy *see* **Masuda, Mikiya; et al., 99c:14064** *and* **99k:14079**
Okun'kov, Andreĭ A remark on the Hilbert polynomial of a spherical manifold. (Russian) **99a:14074**
Ozan, Yıldıray Quotients of real algebraic sets via finite groups. (English summary) **99c:14065**
Parfenov, P. G. Tensor products with a finite number of orbits. (Russian)
Petrie, Ted *see* **Masuda, Mikiya; et al., 99c:14064** *and* **99k:14079**
Pfister, Gerhard *see* **Greuel, Gert-Martin, 99k:14078**
Pillons, Ludovic Description des variétés quotients par $SL(2, k)$. (English and French summaries) [Description of quotient varieties by $SL(2, k)$] **99g:14060**
Popov, Vladimir Leonidovich (*with* Röhrle, Gerhard) On the number of orbits of a parabolic subgroup on its unipotent radical. (English summary) **99f:14063**
— On the closure of some orbits of algebraic groups. (Russian) **99d:14050**
Röhrle, Gerhard *see* **Popov, Vladimir Leonidovich, 99f:14063**
Russell, Peter *see* **Koras, M., 99e:14057**
Schwarz, Gerald W. (*with* Wehlau, David L.) Invariants of four subspaces. (English and French summaries) **99i:14055**
Shmel'kin, D. A. On algebras of invariants and codimension 1 Luna strata for nonconnected groups. (English summary) **99h:14049**
Święcicka, J. *see* **Białynicki-Birula, A., 99g:14058**
Tevelëv, E. A. *see* **Kordonskiĭ, V. È., 99h:14048**
Walcher, Sebastian *see* **Finston, David R., 99i:14054**
Wehlau, David L. *see* **Schwarz, Gerald W., 99i:14055**

Items with secondary classifications in 14L30

Abramovich, D. (*with* de Jong, Aise Johan) Smoothness, semistability, and toroidal geometry. **99b:14016**
Beauville, Arnaud Fano contact manifolds and nilpotent orbits. (English summary) **99e:14046**
van den Bergh, Michel *see* **Musson, Ian M., 99i:16051**
Bongartz, Klaus Some geometric aspects of representation theory. **99j:16005**
Brion, Michel Curves and divisors in spherical varieties. **99f:14006**
— Equivariant Chow groups for torus actions. (English summary) **99c:14005**
— Equivariant cohomology and equivariant intersection theory. (English summary) **99m:14005**
Caenepeel, Stefaan Kummer theory for monogenic Larson orders. (English summary) **99f:16040**
Chai, Ching-Li (*with* Neeman, Amnon) The naturality in Kirwan's decomposition. (English summary) **99k:57077**
Derksen, Harm (*with* Kutzschebauch, Frank) Nonlinearizable holomorphic group actions. **99d:32043**
Domokos, Mátyás Invariants of quivers and wreath products. (English summary) **99g:16043**
Drézet, Jean-Marc Quotients algébriques par des groupes non réductifs et variétés de modules de complexes. [Algebraic quotients by nonreductive groups and moduli varieties of complexes] **99m:14026**
Edidin, Dan (*with* Graham, William A.) Localization in equivariant intersection theory and the Bott residue formula. (English summary) **99g:14005**
Elizondo, E. Javier (*with* Lima-Filho, P.) Chow quotients and projective bundle formulas for Euler-Chow series. (English summary) **99m:14004**
Freudenburg, Gene Local slice constructions in $k[X, Y, Z]$. **99i:13010**
Graham, William A. *see* **Edidin, Dan, 99g:14005**
Grosshans, Frank D. ★ Algebraic homogeneous spaces and invariant theory. **99b:13005**
de Jong, Aise Johan *see* **Abramovich, D., 99b:14016**
Kac, Victor G. Superconformal algebras and transitive group actions on quadrics. (English summary) **99f:17030**
Kebekus, Stefan Simple models of quasihomogeneous projective 3-folds. (English summary) **99g:14067**
Kirwan, Frances Momentum maps and reduction in algebraic geometry. (English summary) **99e:58072**
Knop, Friedrich Some remarks on multiplicity free spaces. (English summary) **99i:20056**
Köck, Bernhard The Grothendieck-Riemann-Roch theorem for group scheme actions. (English and French summaries) **99f:14010**
Köhler, Kai (*with* Roessler, Damien) Un théorème du point fixe de Lefschetz en géométrie d'Arakelov. (English and French summaries) [A Lefschetz fixed point theorem in Arakelov geometry] **99m:14046**
Komatsu, Makoto Weierstrass type expression of curves of genus two and modular forms. (English summary) **99m:14058**
Kutzschebauch, Frank Compact and reductive subgroups of the group of holomorphic automorphisms of $\mathbf{C}^n$. **99k:32054**
— *see also* **Derksen, Harm, 99d:32043**
Levasseur, T. (*with* Stafford, J. T.) Differential operators commuting with invariant functions. (English summary) **99a:22025**
Lima-Filho, P. *see* **Elizondo, E. Javier, 99m:14004**
Masuda, Kayo Moduli of equivariant algebraic vector bundles over a product of affine varieties. **99b:14011**
Merkur'ev, A. S. Comparison of the equivariant and the standard K-theory of algebraic varieties. (Russian. Russian summary) **99d:19003**
— (*with* Panin, I. A.; Wadsworth, A. R.) Index reduction formulas for twisted flag varieties. II. (English summary) **99k:16037**
Musson, Ian M. (*with* van den Bergh, Michel) Invariants under tori of rings of differential operators and related topics. (English summary) **99i:16051**
Neeman, Amnon *see* **Chai, Ching-Li, 99k:57077**
Okun'kov, Andreĭ Brunn-Minkowski inequality for multiplicities. **99a:58074**
Pandharipande, Rahul Equivariant Chow rings of $O(k)$, $SO(2k+1)$, and $SO(4)$. (English summary) **99e:14001**
Panin, I. A. *see* **Merkur'ev, A. S.; et al., 99k:16037**
Panyushev, D. I. On deformation method in invariant theory. (English and French summaries) **99a:13001**
Pappas, Georgios Galois modules and the theorem of the cube. **99d:11122**
(Rittatore, Alvaro) *see* **Brion, Michel, 99m:14005**
Roessler, Damien *see* **Köhler, Kai, 99m:14046**
Röhrle, Gerhard A note on the modality of parabolic subgroups. (English summary) **99e:20060**
Saito, Kyoji Character variety of representations of a finitely generated group in SL_2. **99k:20011**
Saltman, David J. H^3 and generic matrices. (English summary) **99b:12003**
— Ramification and lattices. **99b:12004**
Schneps, Leila The Grothendieck-Teichmüller group $\widehat{GT}$: a survey. **99a:14043**

Shalom, Yehuda Invariant measures for algebraic actions, Zariski dense subgroups and Kazhdan's property (T). (English summary) **99m:22008**
Stafford, J. T. *see* **Levasseur, T., 99a:22025**
Steinberg, Robert Nagata's example. **99h:13004**
Uzawa, Tohru Compactifications of symmetric varieties. (English summary) (*see* **99a:17002**)
Wadsworth, A. R. *see* **Merkur'ev, A. S.; et al., 99k:16037**
Wall, C. T. C. Pencils of binary quartics. **99k:14025**
Winkelmann, Jörg Complex analytic geometry of complex parallelizable manifolds. (English and French summaries) **99g:32058**
Zwara, Grzegorz Degenerations for modules over representation-finite biserial algebras. **99d:16016**
— Degenerations for modules over representation-finite selfinjective algebras. **99d:16017**
— Degenerations for representations of extended Dynkin quivers. (English summary) **99b:16021**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Chernousov, Vladimir I. (*with* Platonov, Vladimir Petrovich) The rationality problem for semisimple group varieties. **99i:14056**
Platonov, Vladimir Petrovich *see* **Chernousov, Vladimir I., 99i:14056**
Voskresenskiĭ, V. E. Birational geometry of linear algebraic groups and Galois modules. **99j:14047**

Items with secondary classifications in 14L35

Brion, Michel Sur certains modules gradués associés aux produits symétriques. (English and French summaries) [Some graded modules associated with symmetric products] **99e:20054**
Goodman, Roe (*with* Wallach, Nolan R.) ★ Representations and invariants of the classical groups. (English summary) **99b:20073**
Grosshans, Frank D. ★ Algebraic homogeneous spaces and invariant theory. **99b:13005**
Howe, Roger (*with* Kraft, Hanspeter) Principal covariants, multiplicity-free actions, and the K-types of holomorphic discrete series. (English summary) **99a:22023**
Kraft, Hanspeter *see* **Howe, Roger, 99a:22023**
Papageorgiou, Yannis Y. SL_2, the cubic and the quartic. (English and French summaries) **99f:20071**
Popov, Vladimir Leonidovich (*with* Röhrle, Gerhard) On the number of orbits of a parabolic subgroup on its unipotent radical. (English summary) **99f:14063**
Röhrle, Gerhard *see* **Popov, Vladimir Leonidovich, 99f:14063**
Wallach, Nolan R. *see* **Goodman, Roe, 99b:20073**

14L40 Other algebraic groups (geometric aspects)

Items with secondary classifications in 14L40

Schmidt, Wolfgang M. Heights of points on subvarieties of G_m^n. **99h:11070**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13C14, 13F45, 13H10]

Walter, Charles Harold Pfaffian subschemes. (English summary) **99f:14064**

Items with secondary classifications in 14M05

Ballico, Edoardo On the general hyperplane section of a projective curve. (English summary) **99f:14035**
Bresinsky, Henrik (*with* Schenzel, Peter; Stückrad, J.) Quasi-complete intersection ideals of height 2. (English summary) **99d:13014**
Chandler, Karen A. Higher infinitesimal neighbourhoods. (English summary) **99c:13036**
Idà, Monica General points on a quadric: resolution. **99g:13019**
Kleppe, Jan O. The smoothness and the dimension of PGor(H) and of other strata of the punctual Hilbert scheme. **99k:14007**
— (*with* Miró-Roig, Rosa M.) The dimension of the Hilbert scheme of Gorenstein codimension 3 subschemes. (English summary) **99a:14002**
Kreuzer, Martin ★ Beiträge zur Theorie der nulldimensionalen Unterschemata projektiver Räume. (German) [Contributions to the theory of zero-dimensional subschemes of projective spaces] **99h:13029**
Lakshmibai, Venkatramani (*with* Magyar, Peter) Degeneracy schemes, quiver schemes, and Schubert varieties. **99g:14065**
Magyar, Peter *see* **Lakshmibai, Venkatramani, 99g:14065**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Quand un morphisme de fibrés dégénère-t-il le long d'une courbe lisse? [When does a bundle morphism degenerate along a smooth curve?] **99i:14035**
Miró-Roig, Rosa M. *see* **Kleppe, Jan O., 99a:14002**
Nagel, Uwe (*with* Schenzel, Peter) Degree bounds for generators of cohomology modules and Castelnuovo-Mumford regularity. (English summary) **99m:13026**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 99i:14035**
Schenzel, Peter *see* **Bresinsky, Henrik; et al., 99d:13014** *and* **Nagel, Uwe, 99m:13026**
Spreafico, Maria Luisa Axiomatic theory for transversality and Bertini type theorems. (English summary) **99f:14008**
Stückrad, J. *see* **Bresinsky, Henrik; et al., 99d:13014**
Yanagawa, Kohji On the regularities of arithmetically Buchsbaum curves. **99b:14028**

14M06 Linkage [see also 13C40]

Ballico, Edoardo Codimension 2 subschemes of projective spaces with stable restricted tangent bundle and liaison classes. **99d:14051**
Martin, Heath M. (*with* Migliore, Juan C.) Submodules of the deficiency modules and an extension of Dubreil's theorem. **99k:14080**
— (*with* Migliore, Juan C.; Nollet, Scott) Degrees of generators of ideals defining curves in projective space. (English summary) **99b:14051**
Migliore, Juan C. *see* **Martin, Heath M.; et al., 99b:14051** *and* **99k:14080**
Nollet, Scott *see* **Martin, Heath M.; et al., 99b:14051**

Items with secondary classifications in 14M06

Arrondo, Enrique (*with* Bertolini, Marina; Turrini, Cristina) Congruences of small degree in $G(1,4)$. (English summary) **99k:14081**
— Appendix to: "Congruences of small degree in $G(1,4)$" [Comm. Algebra **26** (1998), no. 10, 3249–3266; MR 99k:14081] by Arrondo, M. Bertolini and C. Turrini. Pfaffian linkage in codimension three and applications to congruences. (English summary) **99k:14082**
Bertolini, Marina *see* **Arrondo, Enrique; et al., 99k:14081** *and* **99k:14082**
Ellia, Philippe Double structures and normal bundle of space curves. (English summary) **99m:14059**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Quand un morphisme de fibrés dégénère-t-il le long d'une courbe lisse? [When does a bundle morphism degenerate along a smooth curve?] **99i:14035**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 99i:14035**
Peterson, Christopher S. Quasicomplete intersections, powers of ideals, and deficiency modules. **99m:14091**
Polini, Claudia (*with* Ulrich, Bernd) Linkage and reduction numbers. **99g:13017**
Turrini, Cristina *see* **Arrondo, Enrique; et al., 99k:14081** *and* **99k:14082**
Ulrich, Bernd *see* **Polini, Claudia, 99g:13017**

14M07 Low codimension problems [see also 14Cxx]

de Cataldo, Mark Andrea A. Codimension two nonsingular subvarieties of quadrics: scrolls and classification in degree $d \leq 10$. (English summary) **99m:14090**
Kreuzer, Bettina (*with* Kreuzer, Martin) Extremal zero-dimensional subschemes of $\mathbf{P}^2$. (English summary) **99g:14061**
Kreuzer, Martin *see* **Kreuzer, Bettina, 99g:14061**
Tortora, Alfonso On the lifting problem in codimension two. (English summary) **99c:14066**

Items with secondary classifications in 14M07

Ballico, Edoardo Codimension 2 subschemes of projective spaces with stable restricted tangent bundle and liaison classes. **99d:14051**
Kleppe, Jan O. (*with* Miró-Roig, Rosa M.) The dimension of the Hilbert scheme of Gorenstein codimension 3 subschemes. (English summary) **99a:14002**
Martin, Heath M. (*with* Migliore, Juan C.) Submodules of the deficiency modules and an extension of Dubreil's theorem. **99k:14080**
Migliore, Juan C. *see* **Martin, Heath M., 99k:14080**
Miró-Roig, Rosa M. *see* **Kleppe, Jan O., 99a:14002**
Ohno, Masahiro On projective manifolds with degenerate secant varieties. **99m:14102**
Walter, Charles Harold Pfaffian subschemes. (English summary) **99f:14064**
Zappalà, Giuseppe 0-dimensional subschemes of curves lying on a smooth quadric surface. (English summary) **99k:13023**

14M10 Complete intersections [see also 13C40]

Arslan, Feza (*with* Sertöz, A. Sinan) Genus calculations of complete intersections. **99e:14058**
Peterson, Christopher S. Quasicomplete intersections, powers of ideals, and deficiency modules. **99m:14091**
Sertöz, A. Sinan *see* **Arslan, Feza, 99e:14058**

Items with secondary classifications in 14M10

Beauville, Arnaud Quantum cohomology of complete intersections. **99k:14086**
Beltrametti, Mauro C. (*with* Di Rocco, Sandra; Sommese, Andrew J.) On higher order embeddings of Fano threefolds by the anticanonical linear system. (English summary) **99d:14036**
Brückmann, Peter (*with* Müller, Dirk) Birational invariants in the case of prime characteristic. (English summary) **99f:14023**
Chang, Mei-Chu Distributions of Chern numbers of complete intersection three-folds. (English summary) **99h:14005**
Di Rocco, Sandra *see* **Beltrametti, Mauro C.; et al., 99d:14036**
Gaffney, Terence Aureoles and integral closure of modules. **99a:32053**
Gagnon, Michel Hodge number distribution for CICY manifolds. (English summary) **99e:14045**
Geramita, Anthony V. (*with* Ko, Hyoung June; Shin, Yong Su) The Hilbert function and the minimal free resolution of some Gorenstein ideals of codimension 4. (English summary) **99m:13032**
Ko, Hyoung June *see* **Geramita, Anthony V.; et al., 99m:13032**
Müller, Dirk *see* **Brückmann, Peter, 99f:14023**
Nagel, Jan The Abel-Jacobi map for complete intersections. **99c:14062**
Ohmoto, Toru (*with* Suwa, Tatsuo; Yokura, Shoji) A remark on the Chern classes of local complete intersections. **99b:32053**
Shin, Yong Su *see* **Geramita, Anthony V.; et al., 99m:13032**
Soares, Marcio G. The Poincaré problem for hypersurfaces invariant by one-dimensional foliations. **99a:32043**
Sommese, Andrew J. *see* **Beltrametti, Mauro C.; et al., 99d:14036**
Suwa, Tatsuo *see* **Ohmoto, Toru; et al., 99b:32053**
Yokura, Shoji *see* **Ohmoto, Toru; et al., 99b:32053**

14M12 Determinantal varieties [see also 13C40]

Canonero, G. (*with* Serpico, M. E.) On the double locus of a determinantal hypersurface. (Italian. English summary) **99g:14062**

Gherardelli, Francesco Observations about a class of determinantal varieties. (Italian. English summary) **99b:14052**
Iguchi, Kazumoto Universal algebraic varieties and ideals in physics: field theory on algebraic varieties. (English summary) **99a:14075**
Serpico, M. E. *see* **Canonero, G., 99g:14062**
Steffen, Frauke Connectedness theorems for determinantal schemes. **99i:14057**

Items with secondary classifications in 14M12

Glassbrenner, Donna (*with* Smith, Karen E.) Sparse systems of parameters for determinantal varieties. **99b:13019**
Gonciulea, N. (*with* Lakshmibai, Venkatramani) Schubert varieties, toric varieties, and ladder determinantal varieties. (English and French summaries) **99a:14078**
de Jong, Theo Determinantal rational surface singularities. (English summary) **99h:14039**
Klimek, J. (*with* Kraśkiewicz, W.; Weyman, Jerzy) A free resolution of a symplectic rank variety. **99b:13020**
Kraśkiewicz, W. *see* **Klimek, J.; et al., 99b:13020**
Lakshmibai, Venkatramani *see* **Gonciulea, N., 99a:14078**
Manivel, Laurent ★ Fonctions symétriques, polynômes de Schubert et lieux de dégénérescence. (French. English and French summaries) [Symmetric functions, Schubert polynomials and degeneracy loci] **99k:05159**
Pragacz, Piotr Symmetric polynomials and divided differences in formulas of intersection theory. **99b:14002**
Smith, Karen E. *see* **Glassbrenner, Donna, 99b:13019**
Steffen, Frauke A generalized principal ideal theorem with an application to Brill-Noether theory. **99c:14035**
Stevens, Jan Degenerations of elliptic curves and equations for cusp singularities. **99k:32064**
Weyman, Jerzy *see* **Klimek, J.; et al., 99b:13020**

14M15 Grassmannians, Schubert varieties, flag manifolds [see also 32M10, 51M35]

Adamovich, A. M. The structure of cohomology modules of line bundles on G/B, and a weak order on the Weyl group. (Russian. Russian summary) **99b:14053**
Arrondo, Enrique (*with* Bertolini, Marina; Turrini, Cristina) Congruences of small degree in $G(1,4)$. (English summary) **99k:14081**
— Appendix to: "Congruences of small degree in $G(1,4)$" [Comm. Algebra **26** (1998), no. 10, 3249–3266; MR 99k:14081] by Arrondo, M. Bertolini and C. Turrini. Pfaffian linkage in codimension three and applications to congruences. (English summary) **99k:14082**
— Projections of Grassmannians of lines and characterization of Veronese varieties. (English summary) **99k:14083**
Ballico, Edoardo (*with* Hefez, Abramo) Algebraic morphisms into Grassmannians: differential geometry and Frobenius. (English summary) **99g:14063**
Berenstein, Arkady (*with* Zelevinsky, Andrei) Total positivity in Schubert varieties. (English summary) **99g:14064**
Bertolini, Marina *see* **Arrondo, Enrique; et al., 99k:14081** *and* **99k:14082**
Billey, Sara C. Pattern avoidance and rational smoothness of Schubert varieties. (English summary) **99i:14058**
(Ciocan-Fontanine, Ionuţ) *see* **Fulton, William, 99m:14092**
Debarre, Olivier (*with* Manivel, Laurent) Sur la variété des espaces linéaires contenus dans une intersection complète. [The variety of linear spaces contained in a complete intersection] **99j:14048**
Dieudonné, Jean Géométrie des espaces algébriques homogènes (d'après W. L. Chow). [Geometry of homogeneous algebraic spaces (after W. L. Chow)] (*see* **99f:00033**)
Douglass, J. Matthew Irreducible components of fixed point subvarieties of flag varieties. (English summary) **99k:14084**
Fulton, William (*with* Pragacz, Piotr) ★ Schubert varieties and degeneracy loci. **99m:14092**
— Universal Schubert polynomials. **99m:14093**
Hefez, Abramo *see* **Ballico, Edoardo, 99g:14063**
Hille, Lutz Homogeneous vector bundles and Koszul algebras. (English summary) **99m:14094**
Kim, Meeyoung (*with* Sommese, Andrew J.) Two results on branched coverings of Grassmannians. **99e:14059**
Lakshmibai, Venkatramani (*with* Magyar, Peter) Degeneracy schemes, quiver schemes, and Schubert varieties. **99g:14065**
— (*with* Mehta, V. B.; Parameswaran, A. J.) Frobenius splittings and blow-ups. **99i:14059**
Leclerc, Bernard (*with* Zelevinsky, Andrei) Quasicommuting families of quantum Plücker coordinates. **99g:14066**
Magyar, Peter (*with* Weyman, Jerzy; Zelevinsky, Andrei) Multiple flag varieties of finite type. (English summary) **99m:14095**
— *see also* **Lakshmibai, Venkatramani, 99g:14065**
Manivel, Laurent *see* **Debarre, Olivier, 99j:14048**
Marastoni, Corrado Grassmann duality for $\mathscr{D}$-modules. (English and French summaries) **99i:14060**
Mehta, V. B. *see* **Lakshmibai, Venkatramani; et al., 99i:14059**
Parameswaran, A. J. *see* **Lakshmibai, Venkatramani; et al., 99i:14059**
Postnikov, A. E. On a quantum version of Pieri's formula. (English summary) **99m:14096**
Pragacz, Piotr The status of Hilbert's Fifteenth Problem in 1993. (Polish. English summary) **99f:14065**
— *see also* **Fulton, William, 99m:14092**
Shapiro, Boris Z. (*with* Shapiro, Mikhail; Vaĭnshteĭn, A. D.) Kazhdan-Lusztig polynomials for certain varieties of incomplete flags. (English summary) **99b:14054**
Shapiro, Mikhail *see* **Shapiro, Boris Z.; et al., 99b:14054**
Sommese, Andrew J. *see* **Kim, Meeyoung, 99e:14059**
Strickland, E. Projective spaces in flag varieties. **99e:14060**
Turrini, Cristina *see* **Arrondo, Enrique; et al., 99k:14081** *and* **99k:14082**
Vaĭnshteĭn, A. D. *see* **Shapiro, Boris Z.; et al., 99b:14054**
Weyman, Jerzy *see* **Magyar, Peter; et al., 99m:14095**
Zelevinsky, Andrei *see* **Berenstein, Arkady, 99g:14064**; **Leclerc, Bernard, 99g:14066** *and* **Magyar, Peter; et al., 99m:14095**

Items with secondary classifications in 14M15

Adamovich, A. M. The structure of cohomology modules of line bundles on G/B. (Russian. Russian summary) **99c:20054**
Ballico, Edoardo On the dependency loci of sections of semiample vector bundles on projective varieties. (English summary) **99a:14062**
Billey, Sara C. Transition equations for isotropic flag manifolds. (English summary) **99m:05165**
Brion, Michel Equivariant Chow groups for torus actions. (English summary) **99c:14005**
— Equivariant cohomology and equivariant intersection theory. (English summary) **99m:14005**
— The behaviour at infinity of the Bruhat decomposition. (English summary) **99b:14049**
Carrell, James B. The span of the tangent cone of a Schubert variety. **99i:20054**
Faugeras, Olivier (*with* Papadopoulo, Théodore) Grassmann-Cayley algebra for modelling systems of cameras and the algebraic equations of the manifold of trifocal tensors. (English summary) **99c:15049**
Fioresi, R. A deformation of the big cell inside the Grassmannian manifold $G(r,n)$. (English summary) **99k:16080**
Fulton, William ★ Young tableaux. (English summary) **99f:05119**
Gasharov, Vesselin N. Factoring the Poincaré polynomials for the Bruhat order on S_n. **99g:05180**
Gauthier, Luc Quelques variétés usuelles en géométrie algébrique. [Some usual varieties in algebraic geometry] (*see* **99f:00033**)
Gonciulea, N. (*with* Lakshmibai, Venkatramani) Schubert varieties, toric varieties, and ladder determinantal varieties. (English and French summaries) **99a:14078**
Harris, Adam A uniformity criterion for vector bundles on complex projective spaces. **99e:14048**
Lakshmibai, Venkatramani (*with* Littelmann, Peter; Magyar, Peter) Standard monomial theory and applications. (English summary) **99j:20050**
— (*with* Magyar, Peter) Standard monomial theory for Bott-Samelson varieties of $\mathrm{GL}(n)$. (English summary) **99j:14049**
— *see also* **Gonciulea, N., 99a:14078**
Littelmann, Peter Contracting modules and standard monomial theory for symmetrizable Kac-Moody algebras. (English summary) **99d:17027**
— *see also* **Lakshmibai, Venkatramani; et al., 99j:20050**
Magyar, Peter *see* **Lakshmibai, Venkatramani, 99j:14049** *and* **99j:20050**
Manivel, Laurent ★ Fonctions symétriques, polynômes de Schubert et lieux de dégénérescence. (French. English and French summaries) [Symmetric functions, Schubert polynomials and degeneracy loci] **99k:05159**
Okun'kov, Andreĭ Multiplicities and Newton polytopes. **99e:20058**
Pandharipande, Rahul The Chow ring of the nonlinear Grassmannian. (English summary) **99f:14005**
Papadopoulo, Théodore *see* **Faugeras, Olivier, 99c:15049**
Pragacz, Piotr Symmetric polynomials and divided differences in formulas of intersection theory. **99b:14002**
Rahmati, Farhad Déformation des surfaces projectives toriques. (English, French and Polish summaries) [Deformations of projective toric surfaces] **99e:14006**
Rapoport, M. Analogien zwischen den Modulräumen von Vektorbündeln und von Flaggen. [Analogies between the moduli spaces of vector bundles and of flags] **99e:14010**
(Rittatore, Alvaro) *see* **Brion, Michel, 99m:14005**
Senthamarai Kannan, S. Torus quotients of homogeneous spaces. (English summary) **99d:14053**
Shipman, Barbara A. On the geometry of certain isospectral sets in the full Kostant-Toda lattice. (English summary) **99i:58084**
Sottile, Frank Enumerative geometry for the real Grassmannian of lines in projective space. **99a:14079**
Thorup, Anders Parameter spaces for quadrics. (English summary) **99f:14069**
Wenzel, Christian On the Chow ring of a flag. (English summary) **99a:14004**
Wiggerman, Mark The fundamental group of a real flag manifold. (English summary) **99e:57052**
Winkel, Rudolf Schubert functions and the number of reduced words of permutations. (English summary) **99h:05125**
Wolf, Joseph A. (*with* Zierau, R.) Cayley transforms and orbit structure in complex flag manifolds. (English summary) **99b:32049**
— Flag manifolds and representation theory. **99a:22029**
Xambó-Descamps, Sebastian ★ Using intersection theory. (Spanish summary) **99j:14005**
(Yu, Rupert W. T.) *see* **Lakshmibai, Venkatramani; et al., 99j:20050**
Zierau, R. *see* **Wolf, Joseph A., 99b:32049**

14M17 Homogeneous spaces and generalizations [see also 32M10, 53C30, 57T15]

Kaji, Hajime Homogeneous projective varieties with degenerate secants. (English summary) **99d:14052**
Kebekus, Stefan Simple models of quasihomogeneous projective 3-folds. (English summary) **99g:14067**
Kumar, Shrawan (*with* Nori, Madhav V.) Positivity of the cup product in cohomology of flag varieties associated to Kac-Moody groups. **99i:14061**
Lakshmibai, Venkatramani (*with* Magyar, Peter) Standard monomial theory for Bott-Samelson varieties of $\mathrm{GL}(n)$. (English summary) **99j:14049**
Magyar, Peter *see* **Lakshmibai, Venkatramani, 99j:14049**
Nori, Madhav V. *see* **Kumar, Shrawan, 99i:14061**
Panyushev, D. I. (*with* Vinberg, Ernest B.) An infinitesimal characterization of the complexity of homogeneous spaces. (English summary) **99m:14097**
Senthamarai Kannan, S. Torus quotients of homogeneous spaces. (English summary) **99d:14053**
Takeda, Yuichiro On the K-groups of spherical varieties. **99h:14050**

Uzawa, Tohru Compactifications of symmetric varieties. (English summary) (*see* **99a:17002**)
Vinberg, Ernest B. *see* **Panyushev, D. I., 99m:14097**

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Arzhantsev, I. V. On the normality of closures of spherical orbits. (Russian) **99a:14072**
— On the actions of reductive groups with a one-parameter family of spherical orbits. (Russian. Russian summary) **99b:14048**
Brion, Michel The behaviour at infinity of the Bruhat decomposition. (English summary) **99b:14049**
Broer, Abraham A vanishing theorem for Dolbeault cohomology of homogeneous vector bundles. (English summary) **99e:32052**
— Decomposition varieties in semisimple Lie algebras. (English summary) **99k:14077**
— Normal nilpotent varieties in F_4. **99e:14056**
Brundan, Jonathan Double coset density in exceptional algebraic groups. **99k:20091**
Ding, Kequan Rook placements and generalized partition varieties. (English summary) **99c:05205**
Druel, Stéphane Structures de contact sur les variétés algébriques de dimension 5. (English and French summaries) [Contact structures on five-dimensional algebraic varieties] **99j:14041**
Goodman, Roe (*with* Wallach, Nolan R.) ★ Representations and invariants of the classical groups. (English summary) **99b:20073**
Lakshmibai, Venkatramani (*with* Littelmann, Peter; Magyar, Peter) Standard monomial theory and applications. (English summary) **99j:20050**
Li, Jun[1] (*with* Tian, Gang) The quantum cohomology of homogeneous varieties. **99b:14060**
Littelmann, Peter *see* **Lakshmibai, Venkatramani; et al., 99j:20050**
Luna, D. Grosses cellules pour les variétés sphériques. [Large cells for spherical varieties] **99g:14059**
Magyar, Peter *see* **Lakshmibai, Venkatramani; et al., 99j:20050**
Mars, J. G. M. (*with* Springer, T. A.) Hecke algebra representations related to spherical varieties. (English summary) **99h:20072**
Morishita, Masanori (*with* Watanabe, Takao) On S-Hardy-Littlewood homogeneous spaces. (English summary) **99g:11082**
Shapiro, Boris Z. (*with* Shapiro, Mikhail) On ring generated by Chern 2-forms on SL_n/B. (English and French summaries) **99g:14027**
Shapiro, Mikhail *see* **Shapiro, Boris Z., 99g:14027**
Springer, T. A. A description of B-orbits on symmetric varieties. **99g:20083**
— *see also* **Mars, J. G. M., 99h:20072**
Thomsen, Jesper Funch Irreducibility of $\overline{M}_{0,n}(G/P,\beta)$. **99g:14032**
Tian, Gang *see* **Li, Jun[1], 99b:14060**
Voskresenskiĭ, V. E. Birational geometry of linear algebraic groups and Galois modules. **99j:14047**
Wallach, Nolan R. *see* **Goodman, Roe, 99b:20073**
Watanabe, Takao *see* **Morishita, Masanori, 99g:11082**
(Yu, Rupert W. T.) *see* **Lakshmibai, Venkatramani; et al., 99j:20050**

14M20 Rational varieties

Serre, Jean-Pierre Critère de rationalité pour les surfaces algébriques (d'après K. Kodaira). [Rationality criterion for algebraic surfaces (after K. Kodaira)] (*see* **99f:00036**)

Items with secondary classifications in 14M20

Ballico, Edoardo (*with* Russo, Barbara) On the rationality of the moduli schemes of vector bundles on curves. **99a:14014**
Campana, Frédéric (*with* Peternell, Thomas) Rational curves and ampleness properties of the tangent bundle of algebraic varieties. (English summary) **99g:14051**
Chernousov, Vladimir I. (*with* Merkur'ev, A. S.) R-equivalence and special unitary groups. (English summary) **99m:20101**
— (*with* Platonov, Vladimir Petrovich) The rationality problem for semisimple group varieties. **99i:14056**
Harris, Joseph Daniel (*with* Mazur, Barry; Pandharipande, Rahul) Hypersurfaces of low degree. **99j:14043**
Iskovskikh, V. A. On the rationality problem for algebraic threefolds. (Russian) **99g:14002**
Mazur, Barry *see* **Harris, Joseph Daniel; et al., 99j:14043**
Merkur'ev, A. S. K-theory and algebraic groups. **99m:14085**
— *see also* **Chernousov, Vladimir I., 99m:20101**
Pandharipande, Rahul *see* **Harris, Joseph Daniel; et al., 99j:14043**
Peternell, Thomas *see* **Campana, Frédéric, 99g:14051**
Platonov, Vladimir Petrovich *see* **Chernousov, Vladimir I., 99i:14056**
Russo, Barbara *see* **Ballico, Edoardo, 99a:14014**
Voskresenskiĭ, V. E. Birational geometry of linear algebraic groups and Galois modules. **99j:14047**

14M25 Toric varieties, Newton polyhedra

Altmann, Klaus P-resolutions of cyclic quotients from the toric viewpoint. **99i:14062**
Bøgvad, Rikard Splitting of the direct image of sheaves under the Frobenius. (English summary) **99h:14051**
Bouvier, Catherine Diviseurs essentiels, composantes essentielles des variétés toriques singulières. [Essential divisors, essential components of singular toric varieties] **99a:14076**
Brasselet, Jean-Paul Poincaré morphism and divisors of compact toric varieties. **99b:14055**
— Geometry of toric varieties. **99a:14077**
Brion, Michel Piecewise polynomial functions, convex polytopes and enumerative geometry. **99h:14052**
Brumatti, Paulo (*with* Gimenez, Philippe; Simis, Aron) On the Gauss algebra associated to a rational map $\mathbf{P}^d \to \mathbf{P}^n$. (English summary) **99h:14053**
Bukhshtaber, V. M. (*with* Panov, T. E.) Algebraic topology of manifolds defined by simple polyhedra. (Russian) **99m:14098**
Cox, David A. Recent developments in toric geometry. (English summary) **99d:14054**
Druel, Stéphane Structures de contact sur les variétés toriques. [Contact structures on toric varieties] **99m:14099**
Gimenez, Philippe *see* **Brumatti, Paulo; et al., 99h:14053**
Gonciulea, N. (*with* Lakshmibai, Venkatramani) Schubert varieties, toric varieties, and ladder determinantal varieties. (English and French summaries) **99a:14078**
Hoşten, Serkan On the complexity of smooth projective toric varieties. (English summary) **99i:14063**
Khovanskiĭ, A. G. Newton polytopes, curves on toric surfaces, and inversion of Weil's theorem. (Russian) **99d:14055**
Kreuzer, Maximilian (*with* Skarke, Harald) Classification of reflexive polyhedra in three dimensions. (English summary) **99m:14100**
Lakshmibai, Venkatramani *see* **Gonciulea, N., 99a:14078**
Morelli, Robert The birational geometry of toric varieties. (English summary) **99b:14056**
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Komori, Yohei Semialgebraic description of Teichmüller space. (English summary) **99e:32030**
Richter-Gebert, Jürgen ★ Realization spaces of polytopes. **99b:52020**
Slisenko, A. *see* **Grigor'ev, D. Yu., 99e:52018**
Ta Lê Loi Verdier and strict Thom stratifications in o-minimal structures. **99c:32058**

14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

Shiota, Masahiro ★ Geometry of subanalytic and semialgebraic sets. (English summary) **99b:14061**

Items with secondary classifications in 14P15

Andradas, C. *see* **Díaz-Cano, A., 99k:32011**
Bartosiewicz, Zbigniew Real analytic geometry and local observability. (English summary) **99j:93013**
Broglia, Fabrizio (*with* Luminati, Domenico) Connected sum of compact analytic hypersurfaces. (English summary) **99d:32006**
Chazal, Frédéric Structure locale et globale des feuilletages de Rolle, un théorème de fibration. [Local and global structure of Rolle foliations. A fibration theorem] **99k:58151**
Díaz-Cano, A. (*with* Andradas, C.) Stability index of closed semianalytic set germs. **99k:32011**
Gwoździewicz, Janusz (*with* Kurdyka, Krzysztof; Parusiński, Adam) On the number of solutions of an algebraic equation on the curve $y = e^x + \sin x$, $x > 0$, and a consequence for o-minimal structures. (English summary) **99f:03046**
Kurdyka, Krzysztof *see* **Gwoździewicz, Janusz; et al., 99f:03046**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Volumes, feuilles de Rolle de feuilletages analytiques et théorème de Wilkie. (English and French summaries) [Volumes, Rolle leaves of analytic foliations and Wilkie theorem] **99m:32009**
Luminati, Domenico *see* **Broglia, Fabrizio, 99d:32006**
Malgrange, Bernard Variétés analytiques réelles (d'après F. Bruhat, H. Cartan, et B. Malgrange). [Real-analytic manifolds (after F. Bruhat, H. Cartan, and B. Malgrange)] (*see* **99f:00036**)
Parusiński, Adam *see* **Gwoździewicz, Janusz; et al., 99f:03046**
Quarez, Ronan The Noetherian space of abstract locally Nash sets. (English summary) **99e:14064**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie, 99m:32009**
Tognoli, Alberto Approximation theorems in real analytic and algebraic geometry. **99e:32008**

14P20 Nash functions and manifolds [see also 32C07, 58A07]

Fukui, Toshizumi (*with* Koike, Satoshi; Shiota, Masahiro) Modified Nash triviality of a family of zero-sets of real polynomial mappings. (English and French summaries) **99m:14112**
Koike, Satoshi *see* **Fukui, Toshizumi; et al., 99m:14112**

Quarez, Ronan The idempotency of the real spectrum implies the extension theorem for Nash functions. **99d:14062**
Shiota, Masahiro *see* **Fukui, Toshizumi; et al., 99m:14112**

Items with secondary classifications in 14P20

Cucker, Felipe (*with* Lickteig, Thomas) Nash trees and Nash complexity. (English summary) **99a:68055**
Fukui, Toshizumi (*with* Koike, Satoshi; Kuo, Tzee-Char) Blow-analytic equisingularities, properties, problems and progress. **99a:32051**
Koike, Satoshi *see* **Fukui, Toshizumi; et al., 99a:32051**
Kuo, Tzee-Char *see* **Fukui, Toshizumi; et al., 99a:32051**
Lickteig, Thomas *see* **Cucker, Felipe, 99a:68055**
Quarez, Ronan The Noetherian space of abstract locally Nash sets. (English summary) **99e:14064**
Shiota, Masahiro Relations between equivalence relations of maps and functions. **99e:58022**

14P25 Topology of real algebraic varieties

Coste, Michel (*with* Kurdyka, Krzysztof) Le discriminant d'un morphisme de variétés algébriques réelles. [The discriminant of a morphism of real algebraic varieties] **99a:14083**
Dimca, Alexandru (*with* Paunescu, L.) Real singularities and dihedral representations. (English summary) **99g:14070**
Karpushkin, Vladimir Nikolaevich The number of components to the complement of the level hypersurface of a partially harmonic polynomial. (Russian. Russian summary) **99e:14065**
Krasnov, V. A. On orientable real algebraic M-surfaces. (Russian. Russian summary) **99d:14063**
— Real algebraic GM-manifolds. (Russian. Russian summary) **99h:14054**
— Real algebraic GMZ-surfaces. (Russian. Russian summary) **99k:14090**
— Picard and Lefschetz numbers of a real algebraic surface. (Russian. Russian summary) **99m:14113**
Kurdyka, Krzysztof *see* **Coste, Michel, 99a:14083**
Mikhalkin, G. Topology of curves of degree 6 on cubic surfaces in $\mathbf{RP}^3$. (English summary) **99d:14064**
Orevkov, S. Yu. A new affine M-sextic. (Russian) **99j:14053**
Paunescu, L. *see* **Dimca, Alexandru, 99g:14070**
Saito, Sachiko Classification of involutions of lattices with conditions and real algebraic curves on a hyperboloid. **99f:14072**
Shapiro, Boris Z. Discriminants of convex curves are homeomorphic. (English summary) **99a:14084**
Shustin, Evgenīĭ Gluing of singular and critical points. (English summary) **99f:14073**

Items with secondary classifications in 14P25

Arnol'd, Vladimir Igorevich Topological content of the Maxwell theorem on multipole representation of spherical functions. **99c:33029**
Benedetti, Riccardo (*with* Shiota, Masahiro) On real algebraic links in S^3. (Italian summary) **99k:57007**
Cooper, Thomas (*with* Mond, David) Complex monodromy and changing real pictures. **99k:32067**
Gromadzki, G. (*with* Izquierdo Barrios, Milagros) Real forms of a Riemann surface of even genus. (English summary) **99b:30062**
van Hamel, Joost *see* **Mangolte, Frédéric, 99k:14015**
Ishikawa, Go-o Topology of plane trigonometric curves and the strangeness of plane curves derived from real pseudo-line arrangements. **99h:58019**
Itenberg, I. V. (*with* Roy, Marie-Françoise) Interactions between real algebraic geometry and discrete and computational geometry. (English summary) **99j:14052**
Izquierdo Barrios, Milagros *see* **Gromadzki, G., 99b:30062**
Khovanskiĭ, A. G. Boundary indices of polynomial 1-forms with homogeneous components. (Russian. Russian summary) **99e:52016**
Kobayashi, Masanori (*with* Kuo, Tzee-Char) On blow-analytic equivalence of embedded curve singularities. **99d:58028**
Kuo, Tzee-Char *see* **Kobayashi, Masanori, 99d:58028**
Mangolte, Frédéric (*with* van Hamel, Joost) Algebraic cycles and topology of real Enriques surfaces. (English summary) **99k:14015**
Mond, David *see* **Cooper, Thomas, 99k:32067**
Mostovoy, Jacob Spaces of real algebraic cycles on $\mathbf{CP}^n$. (Russian) **99i:14008**
Parusiński, Adam (*with* Szafraniec, Zbigniew) On the Euler characteristic of fibres of real polynomial maps. (English summary) **99m:14107**
Ronga, Félice (*with* Tognoli, Alberto; Vust, Thierry) The number of conics tangent to five given conics: the real case. (English summary) **99d:14059**
Roy, Marie-Françoise *see* **Itenberg, I. V., 99j:14052**
Santos, Francisco Optimal degree construction of real algebraic plane nodal curves with prescribed topology. I. The orientable case. (English summary) **99a:14081**
Shiota, Masahiro *see* **Benedetti, Riccardo, 99k:57007**
Szafraniec, Zbigniew *see* **Parusiński, Adam, 99m:14107**
Tognoli, Alberto *see* **Ronga, Félice; et al., 99d:14059**
Vust, Thierry *see* **Ronga, Félice; et al., 99d:14059**

14P99 None of the above, but in this section

Berr, Ralph Null- and Positivstellensätze for generalized real closed fields. (English summary) **99a:14085**
Bochnak, J. (*with* Kucharz, Wojciech; Silhol, Robert) Morphisms, line bundles and moduli spaces in real algebraic geometry. **99h:14055**
Kaiser, Richard ★ Das sphärische Spektrum eines graduierten Ringes. (German) [The spherical spectrum of a graded ring] **99i:14069**
Kucharz, Wojciech (*with* Rusek, Kamil) Approximation of smooth maps by real algebraic morphisms. (English summary) **99b:14062**
— *see also* **Bochnak, J.; et al., 99h:14055**
Rusek, Kamil *see* **Kucharz, Wojciech, 99b:14062**
Silhol, Robert *see* **Bochnak, J.; et al., 99h:14055**
Ta Lê Loi Whitney stratification of sets definable in the structure $\mathbf{R}_{\exp}$. (English summary) **99f:14074**

Items with secondary classifications in 14P99

Apéry, François (*with* Yoshida, Masaaki) Pentagonal structure of the configuration space of five points in the real projective line. **99e:52017**
Blum, Lenore (*with* Cucker, Felipe; Shub, Michael; Smale, Stephen) ★ Complexity and real computation. (English summary) **99a:68070**
Cucker, Felipe *see* **Blum, Lenore; et al., 99a:68070**
van den Dries, Lou (*with* Speissegger, Patrick) The real field with convergent generalized power series. (English summary) **99a:03036**
Ducros, Antoine L'obstruction de réciprocité à l'existence de points rationnels pour certaines variétés sur le corps des fonctions d'une courbe réelle. (English summary) [The reciprocity obstruction to the existence of rational points for certain varieties defined over the function field of a real curve] **99j:14024**
Jonckheere, Edmond A. ★ Algebraic and differential topology of robust stability. **99d:93001**
(Karp, Richard M.) *see* **Blum, Lenore; et al., 99a:68070**
Khimshiashvili, G. N. Quadratic forms and polynomial equations over real closed fields. (Russian. English and Georgian summaries)
(Klein, Felix) *see* **Ronga, Félice, 99d:01021**
Lusztig, George Introduction to total positivity. **99h:20077**
Marker, David Khovanskii's theorem. **99f:03048**
Monnier, Jean-Philippe Anneaux d'holomorphie et Positivstellensatz archimédien. (English summary) [Holomorphy rings and Archimedean Positivstellensatz] **99m:13013**
Ronga, Félice Points d'inflexion sur les courbes réelles: un travail de Felix Klein à la lumière de la théorie des singularités d'applications. [Inflection points on real curves: a work of Felix Klein in light of the theory of singularities of mappings] **99d:01021**
Shub, Michael *see* **Blum, Lenore; et al., 99a:68070**
Smale, Stephen *see* **Blum, Lenore; et al., 99a:68070**
Speissegger, Patrick *see* **van den Dries, Lou, 99a:03036**
Yoshida, Masaaki *see* **Apéry, François, 99e:52017**

14Qxx Computational aspects in algebraic geometry [see also 12–04, 68Q40]

Items with secondary classifications in 14Qxx

Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Using algebraic geometry. (English summary) **99h:13033**
(Eisenbud, David) *see* **Vasconcelos, Wolmer V., 99c:13048**
(Grayson, Daniel R.) *see* **Vasconcelos, Wolmer V., 99c:13048**
(Herzog, Jürgen) *see* **Vasconcelos, Wolmer V., 99c:13048**
Little, John B. *see* **Cox, David A.; et al., 99h:13033**
O'Shea, Donal *see* **Cox, David A.; et al., 99h:13033**
(Stillman, Michael) *see* **Vasconcelos, Wolmer V., 99c:13048**
Vasconcelos, Wolmer V. ★ Computational methods in commutative algebra and algebraic geometry. (English summary) **99c:13048**

14Q05 Curves

Berry, T. G. Construction of linear systems on hyperelliptic curves. (English summary) **99k:14091**
Chen, Fa Lai *see* **Cox, David A.; et al., 99h:14056**
Cox, David A. (*with* Sederberg, Thomas W.; Chen, Fa Lai) The moving line ideal basis of planar rational curves. (English summary) **99h:14056**
Sederberg, Thomas W. *see* **Cox, David A.; et al., 99h:14056**
Walsh, P. G. A polynomial time complexity bound for computations on curves. (English summary) **99e:14066**

Items with secondary classifications in 14Q05

Buser, Peter (*with* Seppälä, Mika) Computing on Riemann surfaces. (English summary) **99k:30071**
Chen, Fa Lai *see* **Sun, Jian Zhong; et al.**
Hajdu, L. (*with* Herendi, Tamás) Explicit bounds for the solutions of elliptic equations with rational coefficients. (English summary) **99a:11033**
Herendi, Tamás *see* **Hajdu, L., 99a:11033**
Niederreiter, Harald (*with* Xing, Chaoping) Nets, (t, s)-sequences, and algebraic geometry. **99k:11121**
Qu, Yong Ming *see* **Sun, Jian Zhong; et al.**
Santos, Francisco Optimal degree construction of real algebraic plane nodal curves with prescribed topology. I. The orientable case. (English summary) **99a:14081**
Sendra, J. Rafael (*with* Winkler, Franz) Real parametrization of algebraic curves. (English summary) **99m:68099**
Seppälä, Mika *see* **Buser, Peter, 99k:30071**
Sun, Jian Zhong (*with* Chen, Fa Lai; Qu, Yong Ming) Approximate common divisors of polynomials and degree reduction for rational curves. (English summary)
van Wamelen, Paul Examples of genus two CM curves defined over the rationals. (English summary) **99c:11079**
Winkler, Franz *see* **Sendra, J. Rafael, 99m:68099**
Xing, Chaoping *see* **Niederreiter, Harald, 99k:11121**

14Q10 Surfaces, hypersurfaces

Brundu, Michela (*with* Logar, A.) Parametrization of the orbits of cubic surfaces. (English summary) **99m:14114**

Logar, A. *see* **Brundu, Michela**, **99m:14114**

Items with secondary classifications in 14Q10

Buser, Peter (*with* Seppälä, Mika) Computing on Riemann surfaces. (English summary) **99k:30071**

Peters, Jörg (*with* Reif, Ulrich) The 42 equivalence classes of quadratic surfaces in affine n-space. (English summary) **99e:14063**

Reif, Ulrich *see* **Peters, Jörg**, **99e:14063**

Seppälä, Mika *see* **Buser, Peter**, **99k:30071**

14Q15 Higher-dimensional varieties

Items with secondary classifications in 14Q15

Freitag, E. (*with* Hunt, Bruce) A remark on a theorem of Runge. (English summary) **99j:14025**

Giusti, M. (*with* Heintz, Joos; Hägele, K.; Morais, J. E.; Pardo, Luis Miguel; Montaña, José Luis) Lower bounds for Diophantine approximations. (English summary) **99d:68106**

Hägele, K. *see* **Giusti, M.; et al.**, **99d:68106**

Heintz, Joos *see* **Giusti, M.; et al.**, **99d:68106**

Hunt, Bruce *see* **Freitag, E.**, **99j:14025**

Montaña, José Luis *see* **Giusti, M.; et al.**, **99d:68106**

Morais, J. E. *see* **Giusti, M.; et al.**, **99d:68106**

Pardo, Luis Miguel *see* **Giusti, M.; et al.**, **99d:68106**

14Q20 Effectivity

Items with secondary classifications in 14Q20

Becker, Eberhard (*with* Schmid, Joachim) On the real Nullstellensatz. (English summary) **99m:13048**

de Cataldo, Mark Andrea A. Effective nonvanishing, effective global generation. (English and French summaries) **99m:14007**

Oaku, Toshinori The theory of D-modules from a computational perspective. (Japanese) **99i:13036**

Schmid, Joachim *see* **Becker, Eberhard**, **99m:13048**

14Q99 None of the above, but in this section

Items with secondary classifications in 14Q99

Alefeld, G. E. (*with* Kreinovich, Vladik; Mayer, Günter) The shape of the solution set for systems of interval linear equations with dependent coefficients. (English summary) **99c:15004**

Giusti, M. (*with* Heintz, Joos; Morais, J. E.; Morgenstern, Jacques; Pardo, Luis Miguel) Straight-line programs in geometric elimination theory. (English summary) **99d:68128**

Heintz, Joos *see* **Giusti, M.; et al.**, **99d:68128**

Kreinovich, Vladik *see* **Alefeld, G. E.; et al.**, **99c:15004**

Mayer, Günter *see* **Alefeld, G. E.; et al.**, **99c:15004**

Morais, J. E. *see* **Giusti, M.; et al.**, **99d:68128**

Morgenstern, Jacques *see* **Giusti, M.; et al.**, **99d:68128**

Pardo, Luis Miguel *see* **Giusti, M.; et al.**, **99d:68128**

Wang, Dongming Decomposing polynomial systems into simple systems. (English summary) **99d:68130**

Yao, Andrew Chi-Chih Decision tree complexity and Betti numbers. (English summary) **99b:68106**

15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Alferieff, M. E.) *see* **Kostrikin, Alekseĭ Ivanovich, 99k:15001**
Gantmakher, F. R. ★ The theory of matrices. Vol. 1. **99f:15001**
(Hirsch, K. A.) *see* **Gantmakher, F. R., 99f:15001**
Kiyek, Karl-Heinz (*with* Schwarz, Friedrich) ★ Lineare Algebra. (German) [Linear algebra]
Kostrikin, Alekseĭ Ivanovich (*with* Manin, Yuriĭ Ivanovich) ★ Linear algebra and geometry. (English summary) **99k:15001**
Lax, Peter D. ★ Linear algebra. (English summary) **99c:15001**
Manin, Yuriĭ Ivanovich *see* **Kostrikin, Alekseĭ Ivanovich, 99k:15001**
Rao, Calyampudi Radhakrishna (*with* Rao, M. Bhaskara) ★ Matrix algebra and its applications to statistics and econometrics.
Rao, M. Bhaskara *see* **Rao, Calyampudi Radhakrishna**
Schwarz, Friedrich *see* **Kiyek, Karl-Heinz**
Zhang, Fuzhen ★ Matrix theory. (English summary)

Items with secondary classifications in 15–01

Ash, Robert B. ★ A primer of abstract mathematics. **99g:00003**
Bultheel, Adhemar (*with* Van Barel, Marc) ★ Linear algebra, rational approximation and orthogonal polynomials. **99e:65001**
Castillo, Enrique F. (*with* Cobo Ortega, Ángel; Jubete, Francisco; Pruneda, Rosa Eva) ★ Orthogonal sets and polar methods in linear algebra. (English summary) **99k:90001**
Cobo Ortega, Ángel *see* **Castillo, Enrique F.; et al., 99k:90001**
Farin, Gerald E. (*with* Hansford, Dianne) ★ The geometry toolbox. (English summary) **99d:65389**
Hansford, Dianne *see* **Farin, Gerald E., 99d:65389**
Hausner, Melvin ★ A vector space approach to geometry. (English summary) **99f:51002**
Hubbard, Barbara Burke *see* **Hubbard, John Hamal, 99k:00002**
Hubbard, John Hamal (*with* Hubbard, Barbara Burke) ★ Vector calculus, linear algebra, and differential forms. **99k:00002**
Jubete, Francisco *see* **Castillo, Enrique F.; et al., 99k:90001**
Osipov, V. F. ★ Структура пространства-времени: векторная алгебра и анализ. Часть 1. (Russian. Russian summary) [Space-time structure: vector algebra and analysis. Part 1] **99e:53015**
Pruneda, Rosa Eva *see* **Castillo, Enrique F.; et al., 99k:90001**
Van Barel, Marc *see* **Bultheel, Adhemar, 99e:65001**

15–02 Research exposition (monographs, survey articles)

de Sá, Eduardo Marques ★ Interlacing problems for invariant factors. (English summary) **99h:15001**

Items with secondary classifications in 15–02

(Abe, Takehisa) *see* **Gustafson, Karl, 99b:00008**
Gustafson, Karl ★ Lectures on computational fluid dynamics, mathematical physics, and linear algebra. **99b:00008**
(Kuwahara, Kunio) *see* **Gustafson, Karl, 99b:00008**
(Ojima, Izumi) *see* **Gustafson, Karl, 99b:00008**
(Ôtani, Mitsuharu) *see* **Gustafson, Karl, 99b:00008**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

Dick, Adel (*with* Kantowski, R.) Some Clifford algebra history. (English summary) **99i:01003**
(Fallat, Shaun M.) *see* **Johnson, Charles Royal, (99c:01028)**
Hanlon, Philip J. To the Latimer-Macduffee theorem and beyond! (English summary) (*see* **99c:01028**)
Johnson, Charles Royal Olga, matrix theory and the Taussky unification problem. (*see* **99c:01028**)
Kantowski, R. *see* **Dick, Adel, 99i:01003**
Solaeche Galera, María Cristina The algorithm of elementary operations and the reduced echelon matrix: millennial Oriental concepts. (Spanish. English and Spanish summaries) **99g:01007**
(Taussky-Todd, Olga) *see* **Hanlon, Philip J., (99c:01028)** *and* **Johnson, Charles Royal, (99c:01028)**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Cormen, Thomas H. (*with* Sundquist, Thomas; Wisniewski, Leonard F.) Asymptotically tight bounds for performing BMMC permutations on parallel disk systems. (English summary) **99i:15001**
Elaydi, Saber N. (*with* Harris, William A., Jr.) On the computation of A^n. (English summary) **99f:15002**
(Gracia Melero, Juan Miguel) *see* **de Olazábal, Juan Manuel, 99g:15001**
Harris, William A., Jr. *see* **Elaydi, Saber N., 99f:15002**
Huang, Xiao Han (*with* Pan, Victor Y.) Fast rectangular matrix multiplication and applications. (English summary) **99i:15002**
Itoh, Shoji (*with* Zhang, Shao Liang; Natori, Makoto) On an efficient solution method for vector computers related to block 5-diagonal matrix groups. (Japanese) (*see* **99i:00028**)
Manzini, Giovanni Lower bounds for sparse matrix vector multiplication on hypercubic networks. (English summary) **99j:15001**
Natori, Makoto *see* **Itoh, Shoji; et al., (99i:00028)**
de Olazábal, Juan Manuel ★ Procedimientos simbólicos en álgebra lineal. (Spanish. Spanish summary) [Symbolic procedures in linear algebra] **99g:15001**
Pan, Victor Y. *see* **Huang, Xiao Han, 99i:15002**
Sundquist, Thomas *see* **Cormen, Thomas H.; et al., 99i:15001**
Wisniewski, Leonard F. *see* **Cormen, Thomas H.; et al., 99i:15001**
Zhang, Shao Liang *see* **Itoh, Shoji; et al., (99i:00028)**

Items with secondary classifications in 15–04

Abłamowicz, Rafał Matrix exponential via Clifford algebras. (English summary) **99e:15032**
Bini, Dario Andrea (*with* Del Corso, Gianna M.; Manzini, Giovanni; Margara, Luciano) Inversion of circulant matrices over Z_m. (English summary) (*see* **99m:68007**)
Del Corso, Gianna M. *see* **Bini, Dario Andrea; et al., (99m:68007)**
ElGindy, Hossam *see* **Middendorf, Martin, 99i:65048**
Iwasaki, Yoshimitsu (*with* Kohara, Tetsuya) Matrix calculation algorithms for optimization of design of experiments. (Japanese) (*see* **99i:00028**)
Kohara, Tetsuya *see* **Iwasaki, Yoshimitsu, (99i:00028)**
Manzini, Giovanni *see* **Bini, Dario Andrea; et al., (99m:68007)**
Margara, Luciano *see* **Bini, Dario Andrea; et al., (99m:68007)**
Middendorf, Martin (*with* ElGindy, Hossam) Matrix multiplication on processor arrays with optical buses. (English summary) **99i:65048**
Spears, William M. A compression algorithm for probability transition matrices. (English summary) **99f:15033**
Tiskin, Alexandre Bulk-synchronous parallel multiplication of Boolean matrices. (English summary) (*see* **99m:68007**)
Ushiro, Yasunori A generalization of Strassen's method for matrix multiplication. (Japanese) (*see* **99i:00028**)

15–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 15–06

(Bhatia, Rajendra) *see* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
(Bunse-Gerstner, Angelika) *see* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
(Dietrich, Volker) *see* **Clifford algebras and their application in mathematical physics, 99a:00022**
(Elsner, Ludwig) *see* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
(Farebrother, Richard William) *see* **Linear algebra and statistics, 99i:00019**
(Habetha, Klaus) *see* **Clifford algebras and their application in mathematical physics, 99a:00022**
(Jank, Gerhard) *see* **Clifford algebras and their application in mathematical physics, 99a:00022**
(Kirkland, Stephen J.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Mehrmann, Volker) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039** *and* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
(Michler, Gerhard O.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Olesky, D. Dale) *see* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
(Puntanen, Simo) *see* **Linear algebra and statistics, 99i:00019**
(Shader, Bryan L.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Styan, George P. H.) *see* **Linear algebra and statistics, 99i:00019**
(Werner, Hans-Joachim[1]) *see* **Linear algebra and statistics, 99i:00019**

Items listed otherwise than by author

Aachen ★ Clifford algebras and their application in mathematical physics. **99a:00022**
Birthday:
  Elsner, Ludwig F. ★ Special issue celebrating the 60th birthday of Ludwig Elsner.
Chemnitz ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Clifford algebras and their application in mathematical physics ★ Clifford algebras and their application in mathematical physics. **99a:00022**
Conference:
  Clifford Algebras and their Application in Mathematical Physics ★ Clifford algebras and their application in mathematical physics. **99a:00022**
  International Linear Algebra Society ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Cortona ★ Toeplitz matrices: structures, algorithms and applications. **99b:00021**
Festschrift:
  Elsner, Ludwig F. ★ Special issue celebrating the 60th birthday of Ludwig Elsner.
Istanbul ★ Linear algebra and statistics. **99i:00019**
Linear algebra and statistics ★ Linear algebra and statistics. **99i:00019**
Proceedings:
  Conference of the International Linear Algebra Society ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
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  Celebrating the 60th birthday of Ludwig Elsner ★ Special issue celebrating the 60th birthday of Ludwig Elsner.
  Linear algebra and statistics ★ Linear algebra and statistics. **99i:00019**
Toeplitz matrices: structures, algorithms and applications ★ Toeplitz matrices: structures, algorithms and applications. **99b:00021**
Workshop:
  Matrices and Statistics ★ Linear algebra and statistics. **99i:00019**
  Toeplitz Matrices: Structures, Algorithms and Applications ★ Toeplitz matrices: structures, algorithms and applications. **99b:00021**

15A03 Vector spaces, linear dependence, rank

Bai, Shu Wei Axiom systems for a linear space. (Chinese. English and Chinese summaries)

Brown, William C. Null ideals and spanning ranks of matrices. (English summary) **99d:15001**
Callan, David An exploratory approach to Kaplansky's lemma leads to a generalized resultant. **99g:15002**
Chan, Wai-Kiu (*with* Chan, Yip-Cheung; Siu, Man-Keung) Minimal rank of abelian group matrices. (English summary) **99j:15002**
Chan, Yip-Cheung *see* **Chan, Wai-Kiu; et al., 99j:15002**
Chandra, Prabhat (*with* Rahman, Syed Hasibur) A special type of set in a linear space called arithmetical set. (English summary)
Das, Ghanshiam *see* **Maggu, P. L.**
Dorier, Jean-Luc The role of formalism in the teaching of the theory of vector spaces. (English summary) (*see* **99a:00039**)
Gaĭshun, I. V. Axiomatic approach to the concept of a fuzzy vector space. (Russian. English and Russian summaries) **99a:15001**
Geelen, James F. Maximum rank matrix completion. (English summary) **99k:15002**
Grigoryan, A. M. Quasilinear spaces. (Russian. Armenian summary)
Guseinov, G. Sh. (*with* Oturanç, Galip) On the theory of a certain class of quadratic pencils of matrices and its applications. (English summary) **99c:15002**
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Kumada, Toshihiro Isometric embeddings of metric **Q**-vector spaces into $\mathbf{Q}^N$. (English summary) **99f:15003**
Kuroki, Nobuaki (*with* Kitaoka, Keiichiro) The lower and the upper approximations in vector spaces. (English summary) **99g:15003**
Leng, Gang Song (*with* Zhang, Yao) The generalized sine theorem and inequalities for simplices. (English summary) **99f:15004**
Liao, Chun Hua (*with* Lu, Tu) A method for determining a basis of a fuzzy vector space and the calculation of its dimension. (Chinese. English and Chinese summaries)
Lu, Tu *see* **Liao, Chun Hua**
Maggu, P. L. (*with* Das, Ghanshiam) The concept of division of vectors. (English summary)
Menth, Martin Feinste Unterraumketten in unendlich-dimensionalen Vektorräumen. (German summary) [Finest subspace chains in infinite-dimensional vector spaces] **99c:15003**
Oturanç, Galip *see* **Guseinov, G. Sh., 99c:15002**
Rahman, Syed Hasibur *see* **Chandra, Prabhat**
Siemons, I. J. Kernels of modular inclusion maps. (English summary) **99h:15002**
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Song, Seok-Zun (*with* Hong, Sung-Min; Jun, Young Bae; Kim, Seon Jeong) Linear operators that preserve Boolean ranks. (English summary) **99m:15001**
Tuo, Qing Generalized index and dimension formulas for vector spaces. (Chinese. English and Chinese summaries)
Tyrtyshnikov, E. E. Mosaic-skeleton approximations. (English summary) **99f:15005**
Wimmer, Harald K. Canonical angles of unitary spaces and perturbations of direct complements. (English summary) **99j:15003**
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Akian, Marianne (*with* Bapat, Ravindra; Gaubert, Stéphane) Asymptotics of the Perron eigenvalue and eigenvector using max-algebra. (English and French summaries) **99k:15012**
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Beasley, Leroy B. Spaces of rank-2 matrices over GF(2). (English summary) **99k:15031**
Bergman, George M. On k-subspaces of L-vector-spaces. (English summary) **99i:16036**
Blömer, Johannes (*with* Karp, Richard M.; Welzl, Emo) The rank of sparse random matrices over finite fields. (English summary) **99b:15028**
Cho, Soojin Minimal null designs of subspace lattice over finite fields. (English summary) **99k:05046**
Gaubert, Stéphane *see* **Akian, Marianne; et al., 99k:15012**
Gorokhovik, V. V. (*with* Semenkova, E. A.) Step-linear functions in finite-dimensional vector spaces. Definition, properties and their relation to half-spaces. (Russian. English and Russian summaries) **99j:90111**
Groß, Jürgen Solution to a rank equation. (English summary) **99m:15011**
— (*with* Trenkler, Götz; Troschke, Sven-Oliver) On semi-orthogonality and a special class of matrices. (English summary) **99m:15013**
Karp, Richard M. *see* **Blömer, Johannes; et al., 99b:15028**
Keremedis, Kyriakos Extending independent sets to bases and the axiom of choice. (English summary) **99c:03071**
Khakimdjanova, Kamola Espaces vectoriels différentiels. [Differential vector spaces] **99i:12005**
Krupnik, Mark (*with* McDonald, Judith J.) Hereditary properties of matrices with cut-points. (English summary) **99h:05084**
Landsberg, J. M. On a conjecture of Kontsevich and variants of Castelnuovo's lemma. (English summary) **99m:14101**
Lin, Zhang Yu On the number of invariant polynomials of the product of matrices with prescribed similarity classes. (English summary) **99c:15015**
McDonald, Judith J. *see* **Krupnik, Mark, 99h:05084**
Molnár, Lajos (*with* Šemrl, Peter) Some linear preserver problems on upper triangular matrices. (English summary) **99h:15003**
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Quintana-Ortí, Gregorio (*with* Quintana Ortí, Enrique S.) Parallel codes for computing the numerical rank. (English summary) **99c:65079**
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Šemrl, Peter *see* **Molnár, Lajos, 99h:15003**
Sergeichuk, Vladimir V. Unitary and Euclidean representations of a quiver. (English summary) **99g:16020**
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15A04 Linear transformations, semilinear transformations

Beasley, Leroy B. (*with* Monson, Sylvia D.; Pullman, Norman J.) Linear operators that strongly preserve graphical properties of matrices. II. (English summary) **99j:15004**
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Kunicki, Catherine Commutativity-preserving and normal-preserving linear transformations on $\mathcal{M}_2$. (English summary)
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Molnár, Lajos (*with* Šemrl, Peter) Some linear preserver problems on upper triangular matrices. (English summary) **99h:15003**
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Ó Searcóid, Micheál Perturbation of linear operators by idempotents. **99a:15002**
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Sun, Ji-guang Perturbation analysis of generalized singular subspaces. (English summary) **99j:15005**
Wu, Chuan-Kun (*with* Dawson, Edward) Existence of generalized inverse of linear transformations over finite fields. (English summary) **99i:15004**

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Brešar, Matej (*with* Šemrl, Peter) On locally linearly dependent operators and derivations. (English summary) **99e:47039**
Chu, Moody T. (*with* Guo, Quanlin) On the least squares approximation of symmetric-definite pencils subject to generalized spectral constraints. (English summary) **99d:65116**
Díaz Lozano, M. E. The class of $\{1,2,4\}$-inverses as the solution of a linear problem. (Spanish. English and Spanish summaries) **99j:15007**
Edelstein, Michael (*with* Radjavi, Heydar; Tan, Kok-Keong) Boundedness stability properties of linear and affine operators. (English summary) **99b:47002**
Ferrer Llop, Josep (*with* Puerta Sales, Fernando; Puerta, X.) Differentiable structure of the set of controllable $(A, B)^t$-invariant subspaces. (English summary) **99e:93008**
da Fonseca, C. M. On determinant preservers over skew fields. (English summary) **99e:15006**
Gaubert, Stéphane *see* **Akian, Marianne; et al., 99k:15012**
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Kitaoka, Keiichiro *see* **Kuroki, Nobuaki, 99g:15003**
Kuroki, Nobuaki (*with* Kitaoka, Keiichiro) The lower and the upper approximations in vector spaces. (English summary) **99g:15003**
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Puerta Sales, Fernando *see* **Ferrer Llop, Josep; et al., 99e:93008**
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Song, Seok-Zun (*with* Hong, Sung-Min; Jun, Young Bae; Kim, Seon Jeong) Linear operators that preserve Boolean ranks. (English summary) **99m:15001**
Tabor, József Quasi-linear mappings. (English summary) **99a:39062**
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15A06 Linear equations

Alefeld, G. E. (*with* Kreinovich, Vladik; Mayer, Günter) The shape of the solution set for systems of interval linear equations with dependent coefficients. (English summary) **99c:15004**
Bidard, Christian (*with* Salvadori, Neri) Solutions to linear equations depending on a parameter. (English and Italian summaries) **99c:15005**
De Giuli, Maria Elena (*with* Giorgi, Giorgio; Magnani, Umberto) A general linear theorem of the alternative: how to get its special cases quickly. (English summary) **99k:15003**
Demenchuk, A. K. *see* **Grudo, Èduard Iosifovich**
Derevenskiĭ, V. P. Solution of systems of matrix algebraic linear equations. (Russian) **99j:15006**
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Grudo, Èduard Iosifovich (*with* Demenchuk, A. K.) Formulas for solving linear algebraic systems in a critical case. (Russian. English and Russian summaries)
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Sun, Ji-guang Structured backward errors for KKT systems. (English summary) **99m:15002**
Tang, Guoping Decomposition of solutions of homogeneous linear equations. (English and Chinese summaries) **99h:15004**
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Ashcraft, Cleve (*with* Grimes, Roger G.; Lewis, John G.) Accurate symmetric indefinite

linear equation solvers. (English summary) **99i:65026**

Bakonyi, Mihály (*with* Bono, Aaron) Several results on chordal bipartite graphs. (English summary) **99a:05117**

Banoczi, J. M. (*with* Chiu, Nan-Chieh; Cho, Grace E.; Ipsen, Ilse C. F.) The lack of influence of the right-hand side on the accuracy of linear system solution. (English summary) **99g:65033**

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Chandrasekaran, S. (*with* Gu, Ming; Sayed, Ali H.) A stable and efficient algorithm for the indefinite linear least-squares problem. (English summary) **99f:65064**

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Cooperman, Gene (*with* Havas, George) Elementary algebra revisited: randomized algorithms. (English summary) **99g:68091**

Díaz Lozano, M. E. The class of $\{1,2,4\}$-inverses as the solution of a linear problem. (Spanish. English and Spanish summaries) **99j:15007**

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El Ghaoui, Laurent (*with* Lebret, Hervé) Robust solutions to least-squares problems with uncertain data. (English summary) **99c:65075**

Evans, David John[1] (*with* Li, Chang Jun) Sheldon and modified Sheldon methods for matrices with red-black ordering. (English summary) **99h:65053**

García-Sánchez, Pedro A. *see* **Rosales, J. C., 99c:11027**

Golub, Gene H. (*with* Van der Vorst, Henk A.) Closer to the solution: iterative linear solvers. (English summary) **99b:65034**

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— *see also* **Chandrasekaran, S.; et al., 99f:65064**

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Mahrt, L. F. (*with* Szidarovszky, Ferenc) A factored form of complex analytic functions and its application to finding partial fraction decompositions. (English summary) **99e:26014**

Mourrain, Bernard (*with* Pan, Victor Y.) Solving special polynomial systems by using structured matrices and algebraic residues. (English summary) **99k:65048**

Nedoma, Josef[1] Inaccurate linear equation system with a restricted-rank error matrix. (English summary) **99e:65074**

Pan, Victor Y. *see* **Mourrain, Bernard, 99k:65048**

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Rixen, Daniel J. Dual Schur complement method for semi-definite problems. (*see* **99f:65005**)

Rohn, Jiří (*with* Rex, Georg) Enclosing solutions of linear equations. (English summary) **99h:65099**

Rosales, J. C. (*with* García-Sánchez, Pedro A.) Nonnegative elements of subgroups of $\mathbf{Z}^n$. (English summary) **99c:11027**

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Wise, David S. Undulant-block elimination and integer-preserving matrix inversion. (English summary) **99j:65038**

15A09 Matrix inversion, generalized inverses

Auer, John W. On the invertibility of Hadamard powers of distance matrices. (English summary) **99h:15005**

Bru, Rafael (*with* Thome, Néstor) Group inverse and group involutory matrices. (English summary) **99h:15006**

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Ding, Jiu Perturbation results for projecting a point onto a linear manifold. (English summary) **99e:15003**

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Dong, Zhi Qing (*with* Yang, Hu) Characteristics of $\{2\}$-generalized inverses and some problems on partitioned matrices. (Chinese. English and Chinese summaries)

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Huang, Yu-Guang (*with* McColl, W. F.) Analytical inversion of general tridiagonal matrices. (English summary) **99h:15007**

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Johnson, Charles Royal (*with* Lundquist, Michael) Local inversion of matrices with sparse inverses. (English summary) **99b:15002**

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Neumann, Michael A conjecture concerning the Hadamard product of inverses of M-matrices. (English summary) **99h:15008**

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Wang, Yiju On the block independence in reflexive inner inverse and M-P inverse of block matrix. (English summary) **99b:15004**

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Wei, Yi Min Index splitting for the Drazin inverse and the singular linear system. (English summary) **99i:15007**

— A characterization and representation of the generalized inverse $A^{(2)}_{T,S}$ and its applications. (English summary) **99g:15006**

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Al-Musallam, Fadhel *see* **Heinig, Georg, 99c:65015**

Barrlund, Anders Efficient solution of constrained least squares problems with Kronecker product structure. (English summary) **99b:65052**

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Huckle, Thomas Computations with Gohberg-Semencul-type formulas for Toeplitz matrices. (English summary) **99b:65028**

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Li, Zhongshan *see* **Eschenbach, Carolyn A.; et al., 99d:15003**

Liao, An-ping (*with* Zhang, Lei[1]) The necessary and sufficient conditions for the solvability of a class of the matrix inverse problem. (English summary)

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McDonald, Judith J. (*with* Nabben, Reinhard; Neumann, Michael; Schneider, Hans; Tsatsomeros, Michael J.) Inverse tridiagonal Z-matrices. (English summary) **99i:15037**

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15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]

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Edelman, Alan (*with* Elmroth, Erik; Kågström, Bo) A geometric approach to perturbation theory of matrices and matrix pencils. I. Versal deformations. (English summary) **99e:58021**
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Benner, Peter (*with* Faßbender, Heike; Watkins, David S.) SR and SZ algorithms for the symplectic (butterfly) eigenproblem. (English summary) **99m:65068**
Benvenuti, Luca (*with* Farina, Lorenzo) A note on minimality of positive realizations. (English summary) **99b:93016**
Boros, Tibor (*with* Sayed, Ali H.; Lev-Ari, H.; Kailath, Thomas) A generalized Schur-type algorithm for the joint factorization of a structured matrix and its inverse. (English summary) **99f:65042**
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Chang, Xiao-Wen (*with* Paige, Christopher C.) Perturbation analyses for the Cholesky downdating problem. (English summary) **99e:65077**
Chen, Chang Ming[2] The generalized LDL^{T} factorization method. (Chinese. English and Chinese summaries)
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D'Alessandro, Domenico A parametrization of the nonnegative definite solutions of the algebraic Riccati equation. (English summary) **99b:15018**
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— Explicit solutions to the matrix inverse problem $AX = B$. (English summary) **99m:15012**
— (*with* Trenkler, Götz; Troschke, Sven-Oliver) On semi-orthogonality and a special class of matrices. (English summary) **99m:15013**
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Juang, Jong (*with* Lin, Wen-Wei) Nonsymmetric algebraic Riccati equations and Hamiltonian-like matrices. (English summary) **99e:15019**
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Li, Tao Sheng Matrix equations over a principal ideal domain. (Chinese. English and Chinese summaries) **99i:15022**
Li, Wen Jun (*with* Sun, Xiu Zhen) Some remarks on solving the matrix equation $AXB = C$. (Chinese. English and Chinese summaries)
Lin, Wen-Wei *see* **Juang, Jong, 99e:15019**
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— *see also* **Xue, You Cai**
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Xu, Gui Ping (*with* Wei, Mu Sheng; Zheng, Dao Sheng) On solutions of matrix equation $AXB + CYD = F$. (English summary) **99e:15020**
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Yuan, Ping (Anti-)Hermitian matrix solutions to a system of matrix equations. (Chinese. Chinese summary)
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— Symmetric solutions of the matrix equation $AXB = D$ and their applications. (Chinese. English and Chinese summaries) **99j:15022**
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Ziebur, Allen D. Chain rules for functions of matrices. (English summary) **99h:15015**

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Chen, Yong Lin (*with* Chen, Xin) A representation and a Cramer rule for approximate solutions of inconsistent restricted matrix equations. (Chinese. English and Chinese summaries)
Czornik, Adam On bound for the solution of the unified algebraic Riccati equation. (English summary) **99d:93013**
Defez, Emilio (*with* Ponsoda, E.) Explicit solutions for a class of second-order nonautonomous coupled difference systems with initial conditions. (Spanish. Spanish summary) (*see* **99g:00036**)
Derevenskiĭ, V. P. Solution of systems of matrix algebraic linear equations. (Russian) **99j:15006**
Faßbender, Heike (*with* Mackey, D. Steven; Mackey, Niloufer; Xu, Hongguo) Hamiltonian square roots of skew-Hamiltonian matrices. (English summary) **99k:15022**
Grytczuk, Aleksander Note on Fermat's type equation in the set of $n \times n$ matrices. (English summary) **99f:11033**
Guo, Chun-Hua Newton's method for discrete algebraic Riccati equations when the closed-loop matrix has eigenvalues on the unit circle. (English summary) **99j:65086**

Hartwig, Robert E. (*with* Šemrl, Peter) Power additivity and orthogonality. (English summary) **99f:15016**
Huang, Li Ping[3] The quaternion matrix equation $\sum A^i X B_i = E$. (Chinese. English and Chinese summaries) **99f:15020**
Kaczorek, Tadeusz Positive solutions to polynomial matrix equations. (English summary) **99f:93058**
Kečkić, Jovan D. (*with* Prešić, Slaviša B.) Reproductivity—a general approach to equations. **99e:39090**
Kenney, Charles (*with* Laub, A. J.) A Schur-Fréchet algorithm for computing the logarithm and exponential of a matrix. (English summary) **99d:65129**
Lai, Shang-Hong (*with* Vemuri, Baba C.) Sherman-Morrison-Woodbury-formula-based algorithms for the surface smoothing problem. (English summary) **99b:65011**
Lakić, Slobodan On the computation of the matrix kth root. (English summary) **99c:65058**
— (*with* Petković, Miodrag S.) On the matrix square root. (English summary) **99c:65059**
Larin, Vladimir B. Asymptotic expansion of the stabilizing solution of the algebraic Riccati equation. (Russian) **99m:93086**
Laub, A. J. *see* **Kenney, Charles**, **99d:65129**
Lopes, Vera Lúcia Rocha (*with* Zago, José Vitório) A method to solve matricial equations of the type $\sum_{i=1}^{p} A_i X B_i = C$. (English summary) **99h:65083**
Mackey, D. Steven *see* **Faßbender, Heike; et al.**, **99k:15022**
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Park, Pil Seong Use of cyclicity for solving some matrix problems. (English summary) **99j:65080**
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Ponsoda, E. *see* **Defez, Emilio**, (**99g:00036**)
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Rashkova, Tsetska G. $*$-identities of minimal degree in matrix algebras of low order. (English summary) **99c:16022**
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Sun, Ji-guang Sensitivity analysis of the discrete-time algebraic Riccati equation. (English summary) **99f:93094**
— Residual bounds of approximate solutions of the discrete-time algebraic Riccati equation. (English summary) **99a:93037**
— Perturbation theory for algebraic Riccati equations. (English summary) **99d:93016**
Sun, Jian Ping (*with* Zhang, Yan E; Wang, Xi Zhao) The solution of the fuzzy matrix equation $Ax = b$ and its properties. (Chinese. English and Chinese summaries)
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Zhang, Yan E *see* **Sun, Jian Ping; et al.**

15A27 Commutativity

Groß, Jürgen (*with* Trenkler, Götz) On the product of oblique projectors. (English summary) **99j:15023**
Li, Xun[2] *see* **Liu, Guo Jing**
Liu, Guo Jing (*with* Li, Xun[2]) Some results on the commutativity of matrix products in Minkowski inner product spaces. (Chinese. English and Chinese summaries)
Shapiro, Helene Commutators which commute with one factor. (English summary) **99c:15022**
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Kunicki, Catherine Commutativity-preserving and normal-preserving linear transformations on $\mathcal{M}_2$. (English summary)
Molnár, Lajos (*with* Šemrl, Peter) Some linear preserver problems on upper triangular matrices. (English summary) **99h:15003**
Šemrl, Peter *see* **Molnár, Lajos**, **99h:15003**

15A30 Algebraic systems of matrices [see also 16S50, 20Gxx, 20Hxx]

Ben-Or, Michael *see* **Feig, Ephraim**, **99e:15021**
Chugunov, V. N. *see* **Ikramov, Khakim D.**
Feig, Ephraim (*with* Ben-Or, Michael) On algebras related to the discrete cosine transform. (English summary) **99e:15021**
Friedland, Shmuel (*with* Loewy, Raphael) Spaces of symmetric matrices containing a nonzero matrix of bounded rank. (English summary) **99j:15024**
Groß, Jürgen A note on the rank-subtractivity ordering. (English summary) **99k:15029**
Ikramov, Khakim D. (*with* Chugunov, V. N.) On algebras generated by pairs of conjugate matrices. (Russian)
Kołodziejczak, Barbara (*with* Szulc, Tomasz) Convex combinations of matrices—full rank characterization. (English summary) **99m:15015**
Liang, Zhi An (*with* Ye, Qing Kai) The discussion on algebraic properties of polynomial matrices. (Chinese. English and Chinese summaries) **99m:15016**
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Szulc, Tomasz *see* **Kołodziejczak, Barbara**, **99m:15015**
Ye, Qing Kai *see* **Liang, Zhi An**, **99m:15016**

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Cen, Jian Miao On the sandwich semigroups of group Boolean matrices. (English summary) **99b:20101**
Guralnick, Robert M. (*with* Li, Chi-Kwong) Invertible preservers and algebraic groups. III. Preservers of unitary similarity (congruence) invariants and overgroups of some unitary subgroups. (English summary) **99m:20109**
Ji, Xingzhi On matrix inverse eigenvalue problems. (English summary) **99c:15011**
Laffey, Thomas J. Expressing unipotent matrices over rings as products of involutions. **99e:16042**
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Marcoux, Laurent W. (*with* Sourour, Ahmed R.) Commutativity preserving linear maps and Lie automorphisms of triangular matrix algebras. (English summary) **99k:16072**
Molnár, Lajos An algebraic approach to Wigner's unitary-antiunitary theorem. (English summary) **99k:46031**
Sourour, Ahmed R. *see* **Marcoux, Laurent W.**, **99k:16072**

15A33 Matrices over special rings (quaternions, finite fields, etc.)

Abdel-Ghaffar, Khaled A. S. Long division for Laurent series matrices and the optimal assignment problem. (English summary) **99e:15022**
Baker, Andrew James Right eigenvalues for quaternionic matrices: a topological approach. (English summary) **99k:15030**
Beasley, Leroy B. Spaces of rank-2 matrices over GF(2). (English summary) **99k:15031**
Brawley, Joel V. (*with* Teitloff, Timothy C.) Similarity to symmetric matrices over finite fields. (English summary) **99g:15017**
Breen, Michael (*with* Hume, David) Properties of a standard form for a Boolean matrix. (English summary) **99a:15005**
Cao, Chong Guang (*with* Yu, Xian Jun) Inverse-preserving modular endomorphisms of matrices over a commutative ring. (Chinese. English and Chinese summaries)
— (*with* Zhang, Xian[2]) Multiplicative semigroup automorphisms of upper triangular matrices over rings. (English summary) **99m:15017**
Cao, Xi Wang Decompositions of quaternion matrices. (Chinese. English and Chinese summaries)
Dray, Tevian (*with* Manogue, Corinne A.) Finding octonionic eigenvectors using Mathematica. (English summary) **99m:15018**
Guo, Zhong *see* **Wang, Xian Tao**, **99f:15022**
Hong, Shao Fang Gaps in the cardinalities of row spaces of Boolean matrices. (English summary) **99c:15023**
Huang, Li Ping[3] The quaternion matrix equation $\sum A^i X B_i = E$. (Chinese. English and Chinese summaries) **99f:15020**
— The primary rational canonical form and the eigenvalues of algebraic matrices over a skew field. (Chinese. English and Chinese summaries) **99j:15025**
— The minimal polynomial of a matrix over a central simple algebra. (English summary) **99i:15024**
Hume, David *see* **Breen, Michael**, **99a:15005**
Li, Tao Sheng (*with* Qin, Yu Yuan) The expansion of a max-algebra and its properties. (Chinese. English and Chinese summaries) **99f:15021**
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Manogue, Corinne A. *see* **Dray, Tevian**, **99m:15018**
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Sheng, Zhong Ping Generalized resultant matrices of a polynomial system. (Chinese. English and Chinese summaries)
So, Wasin An explicit criterion for the convexity of quaternionic numerical range. (English summary) **99d:15012**
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Vasantha Kandasamy, W. B. Matrices over the Boolean algebra [0, 1].
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Yu, Lan Mei A further discussion on the problem of power sums of matrices. (Chinese. English and Chinese summaries)
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Zhou, Bo[2] (*with* Liu, Bo Lian) Convergent indices of Boolean matrices with s-cycle positive elements on exactly t rows. (Chinese. English and Chinese summaries) **99f:15023**
— Matrices with maximum upper multiexponents in the class of primitive, nearly reducible matrices. (English summary) **99c:15024**
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Cao, Chong Guang *see* **Feng, Li Xin**
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Cen, Jian Miao On the sandwich semigroups of group Boolean matrices. (English summary) **99b:20101**
Cooke, C. H. (*with* Heng, I.) Polynomial construction of complex Hadamard matrices with cyclic core. (English summary) **99g:05037**
Corbas, B. (*with* Williams, G. D.) Matrix representatives for three-dimensional bilinear forms over finite fields. (English summary) **99h:11038**

Cuninghame-Green, Raymond *see* **Gaubert, Stéphane; et al., 99f:93100**
Fagnani, Fabio (*with* Zampieri, Sandro) Difference equations, shift operators and systems over Noetherian factorial domains. (English summary) **99i:93015**
Feng, Li Xin (*with* Cao, Chong Guang) Additive operators that preserve inverse matrices. (Chinese. English and Chinese summaries)
da Fonseca, C. M. On determinant preservers over skew fields. (English summary) **99e:15006**
Gaubert, Stéphane (*with* Butkovič, Peter; Cuninghame-Green, Raymond) Minimal (max, +) realization of convex sequences. (English summary) **99f:93100**
Gomatam, Jagannathan (*with* McFarlane, Isobel) Generalisation of the Mandelbrot set to integral functions of quaternions. (English summary) **99k:30041**
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Kurakin, V. L. The exponent of the congruence subgroup of a finite commutative chain ring. (Russian. Russian summary) **99i:20068**
Leedham-Green, Charles *see* **Celler, F., 99g:20001**
Li, Li[4] Using nontrivial idempotent matrices over finite fields to construct Cartesian authentication codes. (Chinese. English and Chinese summaries) **99k:94038**
Li, Tao Sheng Matrix equations over a principal ideal domain. (Chinese. English and Chinese summaries) **99i:15022**
Li, Yang Ming The relations between some concepts in the theory of quaternion matrices. (Chinese. English and Chinese summaries) **99f:15007**
Lu, Yun Xia (*with* Yuan, Zhi Zhong; Zhang, Shu Qing) An inequality for singular values of products of quaternion matrices and its applications. (Chinese. English and Chinese summaries)
McFarlane, Isobel *see* **Gomatam, Jagannathan, 99k:30041**
de Sá, Eduardo Marques ★ Interlacing problems for invariant factors. (English summary) **99h:15001**
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Xue, You Cai (*with* Wang, Qing Wen) The matrix equation $AXB = CYD$ over an arbitrary skew field. (Chinese. English and Chinese summaries)
Yuan, Zhi Zhong *see* **Lu, Yun Xia; et al.**
Zampieri, Sandro *see* **Fagnani, Fabio, 99i:93015**
Zhang, Shu Qing *see* **Lu, Yun Xia; et al.**

15A36 Matrices of integers [see also 11C20]

Bhowmik, Gautami (*with* Ramaré, Olivier) Algebra of matrix arithmetic. (English summary) **99k:15032**
Golumbic, Martin Charles Matrix sandwich problems. (English summary) **99c:15026**
Guenin, Bertrand Perfect and ideal 0, ±1 matrices. (English summary) **99e:15023**
Motwani, Rajeev Realization of matrices and directed graphs. (English summary) **99c:15027**
Ramaré, Olivier *see* **Bhowmik, Gautami, 99k:15032**
Shevelev, V. S. Development of the rook technique for computing cyclic indicators of (0, 1)-matrices. (Russian. English and Russian summaries) **99f:15024**
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Chan, Wai-Kiu (*with* Chan, Yip-Cheung; Siu, Man-Keung) Minimal rank of abelian group matrices. (English summary) **99j:15002**
Chan, Yip-Cheung *see* **Chan, Wai-Kiu; et al., 99j:15002**
von Höhne, Hans-Joachim (*with* de la Peña, José Antonio) Isotropic vectors of non-negative integral quadratic forms. (English summary) **99j:11035**
Imada, Naotaka A sparse matrix and the Catalan numbers. **99b:11019**
Nagrebetskaya, Yu. V. *see* **Vazhenin, Yu. M.**
Nobili, Paolo (*with* Sassano, Antonio) (0, ±1) ideal matrices. (English summary) **99c:90096**
de la Peña, José Antonio *see* **von Höhne, Hans-Joachim, 99j:11035**
Sassano, Antonio *see* **Nobili, Paolo, 99c:90096**
Siu, Man-Keung *see* **Chan, Wai-Kiu; et al., 99j:15002**
Storjohann, Arne Computing Hermite and Smith normal forms of triangular integer matrices. (English summary) **99j:65074**
Torres-Cházaro, Adolfo (*with* Vallejo, Ernesto) Sets of uniqueness and minimal matrices. (English summary) **99k:05013**
Vallejo, Ernesto *see* **Torres-Cházaro, Adolfo, 99k:05013**
Vazhenin, Yu. M. (*with* Nagrebetskaya, Yu. V.) On critical theories of groups and monoids in integer-valued matrices. (Russian)
Wang, Bo Ying[1] (*with* Zhang, Fuzhen) On the precise number of (0, 1)-matrices in $\mathfrak{A}(R, S)$. (English summary) **99f:05010**
— (*with* Zhang, Fuzhen) On normal matrices of zeros and ones with fixed row sum. (English summary) **99e:05028**
Zhang, Fuzhen *see* **Wang, Bo Ying[1], 99e:05028** *and* **99f:05010**

15A39 Linear inequalities

Borobia, Alberto *see* **Kästner, J.; et al., 99f:15025**
Dress, Andreas W. M. *see* **Kästner, J.; et al., 99f:15025**
Kästner, J. (*with* Borobia, Alberto; Dress, Andreas W. M.; Zylka, Ch.) Extremal majorizing and anti-majorizing matrices. (English summary) **99f:15025**
Schechter, Murray Integration over a polyhedron: an application of the Fourier-Motzkin elimination method. **99d:15014**
Zylka, Ch. *see* **Kästner, J.; et al., 99f:15025**

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Chen, Bintong *see* **Pinar, Mustafa Çelebi, 99j:90085**
De Giuli, Maria Elena (*with* Giorgi, Giorgio; Magnani, Umberto) A general linear theorem of the alternative: how to get its special cases quickly. (English summary) **99k:15003**
Fujishige, Satoru (*with* Yang, Zaifu) A lexicographic algebraic theorem and its applications. (English summary) **99k:15035**
Giorgi, Giorgio *see* **De Giuli, Maria Elena; et al., 99k:15003**
Joskowicz, L. *see* **Ramalingam, G.; et al., 99j:90105**
Kojima, Masakazu (*with* Megiddo, Nimrod; Mizuno, Shinji) A conjugate direction method for approximating the analytic center of a polytope. (English summary) **99m:90100**
Lavrič, Boris Convergence of certain bounded sequences. (English summary) **99g:15023**
López, Marco Antonio (*with* Mira López, Juan A.; Torregrosa, G.) On the stability of infinite-dimensional linear inequality systems. (English summary) **99j:90092**
Magnani, Umberto *see* **De Giuli, Maria Elena; et al., 99k:15003**
Megiddo, Nimrod *see* **Kojima, Masakazu; et al., 99m:90100**
Miller, Raymond E. *see* **Ramalingam, G.; et al., 99j:90105**
Mira López, Juan A. *see* **López, Marco Antonio; et al., 99j:90092**
Mizuno, Shinji *see* **Kojima, Masakazu; et al., 99m:90100**
Mora Martínez, Gaspar A topology over a set of systems. (English and Spanish summaries) **99g:90152**
Niezgoda, Marek An analytical characterization of effective and of irreducible groups inducing cone orderings. (English summary) **99d:15019**
Pinar, Mustafa Çelebi (*with* Chen, Bintong) l_1 solution of linear inequalities. (English summary) **99j:90085**
Pühl, Heidrun (*with* Schirotzek, W.; Weber, M. R.) On matrices satisfying a maximum principle with respect to a cone. (English summary) **99h:15020**
Ramalingam, G. (*with* Song, J.; Joskowicz, L.; Miller, Raymond E.) Solving systems of difference constraints incrementally. (English summary) **99j:90105**
Schäffler, Meike Partition regular systems of linear inequalities. **99i:05199**
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Song, J. *see* **Ramalingam, G.; et al., 99j:90105**
Torregrosa, G. *see* **López, Marco Antonio; et al., 99j:90092**
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Yang, Zaifu *see* **Fujishige, Satoru, 99k:15035**

15A42 Inequalities involving eigenvalues and eigenvectors

Bhatia, Rajendra (*with* Elsner, Ludwig; Krause, Gerd M.) Spectral variation bounds for diagonalisable matrices. (English summary) **99c:15028**
Bolgrabskaya, I. A. On a uniform lower bound for the minimal eigenvalue of a five-diagonal matrix. (Russian. English summary) **99c:15029**
Edelman, Alan *see* **Ma, Yanyuan, 99d:15016**
Elsner, Ludwig *see* **Bhatia, Rajendra; et al., 99c:15028**
Goreinov, S. A. (*with* Tyrtyshnikov, E. E.; Zamarashkin, N. L.) A theory of pseudoskeleton approximations. (English summary) **99d:15015**
Krause, Gerd M. *see* **Bhatia, Rajendra; et al., 99c:15028**
Leite, R. S. (*with* Richa, T. R. W.; Tomei, Carlos) Geometric proofs of some theorems of Schur-Horn type. (English summary) **99k:15033**
Li, Chi-Kwong (*with* Mathias, Roy) Some interlacing theorems on the Schur complement. (English summary) **99f:15026**
Liu, Jian Zhou Some inequalities for singular values and eigenvalues of generalized Schur complements of products of matrices. (English summary) **99j:15026**
Loewy, Raphael (*with* Radwan, Nizar) On spaces of matrices with a bounded number of eigenvalues. (English summary) **99i:15025**
Lu, Yun Xia (*with* Yuan, Zhi Zhong; Zhang, Shu Qing) An inequality for singular values of products of quaternion matrices and its applications. (Chinese. English and Chinese summaries)
Ma, Yanyuan (*with* Edelman, Alan) Nongeneric eigenvalue perturbations of Jordan blocks. (English summary) **99d:15016**
Mathias, Roy *see* **Li, Chi-Kwong, 99f:15026**
Niezgoda, Marek Group majorization and Schur type inequalities. (English summary) **99f:15027**
Perov, A. I. On Brauer's theorem and Cassini ovals. (Russian) **99c:15030**
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Alpin, Yu. A. (*with* Kolotilina, L. Yu.) Inequalities for the Perron root related to Levinger's theorem. (English summary) **99i:15028**
Bhatia, Rajendra (*with* Kittaneh, Fuad; Li, Ren-Cang) Some inequalities for commutators and an application to spectral variation. II. (English summary) **99f:47014**
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Higham, Nicholas J. (*with* Cheng, Sheung Hun) Modifying the inertia of matrices arising in optimization. (English summary) **99d:90072**
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— (*with* Blondel, Vincent D.) Lyapunov exponents of pairs of matrices. A correction: "The Lyapunov exponent and joint spectral radius of pairs of matrices are hard—when not impossible—to compute and to approximate". **99h:65238b**
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de Caen, D. Matrix inequalities of cubic type. (English summary) **99c:15032**
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Liu, Su Fang Inequalities for determinants of positive definite real matrices. (Chinese. English and Chinese summaries)
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Johnson, Charles Royal (*with* Nævdal, Geir) The probability that a (partial) matrix is positive semidefinite. (English summary) **99g:15021**
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Laffey, Thomas J. (*with* Meehan, Eleanor) A refinement of an inequality of Johnson, Loewy and London on nonnegative matrices and some applications. (English summary) **99f:15031**
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Lavrič, Boris Convergence of certain bounded sequences. (English summary) **99g:15023**
Li, Guo Ling Some properties of Kronecker products of universal positive definite matrices. (Chinese. English and Chinese summaries)
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Protasov, V. Yu. A generalized joint spectral radius. A geometric approach. (Russian. Russian summary) **99c:15041**
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Qi, Feng (*with* Luo, Qiu-Ming) A simple proof of monotonicity for extended mean values. (English summary)
Röhrl, N. (*with* Waldi, Rolf) A determinantal criterion for positive sign-solvability. **99k:15036**
Rousseau, George A sufficient condition for a non-negative matrix to have non-negative determinant. (English summary) **99j:15030**
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Shiraishi, Shunsuke (*with* Obata, Tsuneshi; Daigo, Motomasa) Properties of a positive reciprocal matrix and their application to AHP. (English summary) **99f:15032**
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Cao, Zhi-Hao (*with* Liu, Zhong-Yun) Symmetric multisplitting of a symmetric positive definite matrix. (English summary) **99j:65070**
Caron, R. M. (*with* Li, Xin[3]; Mikusiński, Piotr; Sherwood, H.; Taylor, M. D.) Nonsquare "doubly stochastic" matrices. (English summary) **99b:15025**
Ceccarossi, G. Irreducible matrices and primitivity index. (English summary) **99k:05105**
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Elsner, Ludwig (*with* Hershkowitz, Daniel) Hadamard functions preserving nonnegative H-matrices. (English summary) **99g:15028**
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Fallat, Shaun M. (*with* Johnson, Charles Royal; Smith, Ronald L.; van den Driessche, P.) Eigenvalue location for nonnegative and Z-matrices. (English summary) **99e:15009**
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Fiedler, Miroslav Some characterizations of symmetric inverse M-matrices. (English summary) **99h:15024**
García-Esnaola, M. (*with* Peña, J. M.) Optimal convexity preserving bases. (English summary) **99i:65012**
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Hu, Ya Hui (*with* Mei, Quan Xiong) A distance inequality for an undirected graph and its application to nonnegative matrices. (Chinese. English and Chinese summaries) **99i:05072**
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Peña, J. M. *see* **García-Esnaola, M., 99i:65012**
Picci, Giorgio (*with* van den Hof, J. M.; van Schuppen, J. H.) Primes in several classes of the positive matrices. (English summary) **99f:15019**
Pinkus, Allan An interlacing property of eigenvalues of strictly totally positive matrices. (English summary) **99f:15013**
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Rump, Siegfried M. Theorems of Perron-Frobenius type for matrices without sign restrictions. (English summary) **99b:15019**
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Xiang, Shu Huang (*with* You, Zhao Yong) Weak block diagonally dominant matrices, weak block H-matrix and their applications. (English summary) **99j:15034**
(Yang, Xin Min) *see* **Li, Yan Xi**
Yeh, Lina Inequalities for the maximal eigenvalue of a nonnegative matrix. (English summary) **99b:15020a**
— Addendum to the paper: "Inequalities for the maximal eigenvalue of a nonnegative matrix". **99b:15020b**
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15A51 Stochastic matrices

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Jain, Surender Kumar *see* **Bapat, Ravindra; et al., 99j:15032**
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Koshevoĭ, G. A. The Lorenz zonotope and multivariate majorizations. (English summary) **99b:15026**
Li, Xin^3 (*with* Mikusiński, Piotr; Sherwood, H.; Taylor, M. D.) In quest of Birkhoff's theorem in higher dimensions. (English summary) **99b:15027**
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— *see also* **Cohen, Joel E.; et al., 99m:15023**
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Gurvits, Leonid Trace inequalities and linear programming (with applications to Markov chains). (English summary) **99g:90072**
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Hwang, Suk-Geun (*with* Lee, Jae Don; Park, Hong-Sun) Permanents of doubly stochastic kite matrices. (English summary) **99c:15008**
Karuppan Chetty, C. S. (*with* Arulraj, S. Maria) Falsity of Wang's conjecture on stars. (English summary) **99g:15008**
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van Schuppen, J. H. *see* **Picci, Giorgio; et al., 99f:15019**
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Villarreal, César E. Asymptotic periodic behavior of Markov matrices. (Spanish. English and Spanish summaries) **99b:60107**
Wanless, I. M. The Holens-Doković conjecture on permanents fails! (English summary) **99j:15012**

15A52 Random matrices

Blömer, Johannes (*with* Karp, Richard M.; Welzl, Emo) The rank of sparse random matrices over finite fields. (English summary) **99b:15028**
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Boutet de Monvel-Berthier, Anne-Marie (*with* Khorunzhiĭ, A. M.) Limit theorems for random matrices. (English summary) **99k:60100**
Brézin, E. (*with* Hikami, S.) Level spacing of random matrices in an external source. (English summary) **99m:82023**
Chen, Yang^1 (*with* Lawrence, Nigel) On the linear statistics of Hermitian random matrices. (English summary) **99i:82022**
Choi, Sang-Il The limiting spectral distribution function of large-dimensional random matrices of sample covariance type. (English summary) **99d:60023**
Deift, P. (*with* Kriecherbauer, Thomas; McLaughlin, K. T.-R.; Venakides, Stephanos; Zhou, Xin) Asymptotics for polynomials orthogonal with respect to varying exponential weights. **99g:34038**
Demetrovics, János (*with* Katona, Gyula O. H.; Miklós, D.; Seleznev, O. V.; Thalheim, Bernhard) Functional dependencies in random databases. **99m:68041**
Eynard, Bertrand Eigenvalue distribution of large random matrices, from one matrix to several coupled matrices. (English summary) **99f:82033**
— (*with* Mehta, Madan Lal) Matrices coupled in a chain. I. Eigenvalue correlations. (English summary) ~~99g:82028~~
Fedorov, Ya. V. (*with* Sommers, Hans-Jürgen; Khoruzhenko, Boris A.) Universality in the random matrix spectra in the regime of weak non-Hermiticity. (English and French summaries) **99i:60080**
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Kriecherbauer, Thomas *see* **Deift, P.; et al., 99g:34038**
Kuś, Marek (*with* Haake, Fritz; Zaitsev, Dmitri; Huckleberry, Alan) Level dynamics for conservative and dissipative quantum systems. (English summary) **99e:82088**
— *see also* **Poźniak, Marcin; et al., 99g:82032**
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Normand, Jean-Marie *see* **Mahoux, Gilbert; et al., 99g:82029**
Oravecz, Ferenc (*with* Petz, Dénes) On the eigenvalue distribution of some symmetric random matrices. (English summary) **99a:60020**
Pastur, Leonid Andreevich (*with* Shcherbina, Maria) Distribution of the eigenvalues of a class of random matrices in the limit of their infinite dimension. (Russian. English, Russian and Ukrainian summaries) **99f:82036**
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Rao, Ayyagari Ramachandra (*with* Jana, Rabindranath; Bandyopadhyay, Suraj) A Markov chain Monte Carlo method for generating random $(0, 1)$-matrices with given marginals. (English summary) **99k:65012**
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Shcherbina, Maria *see* **Pastur, Leonid Andreevich, 99f:82036**
Sinaĭ, Yakov Grigor'evich (*with* Soshnikov, A.) Central limit theorem for traces of large random symmetric matrices with independent matrix elements. (English summary) **99f:60053**
Sommers, Hans-Jürgen *see* **Fedorov, Ya. V.; et al., 99i:60080**
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15A54 Matrices over function rings in one or more variables

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Fagnani, Fabio (*with* Zampieri, Sandro) Difference equations, shift operators and systems over Noetherian factorial domains. (English summary) **99i:93015**
Florian, Helmut (*with* Püngel, J.; Tutschke, Wolfgang) Matrix differential transformations. (English summary) **99m:35014**
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Goh, Say Song (*with* Yap, Von Bing) Matrix extension and biorthogonal multiwavelet construction. (English summary) **99d:42059**
Kublanovskaya, V. N. Methods and algorithms for solving spectral problems for polynomial and rational matrices. (Russian. English and Russian summaries) **99e:65045**
Püngel, J. *see* **Florian, Helmut; et al., 99m:35014**
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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

Bacchelli Montefusco, Laura *see* **Barnabei, Marilena, 99b:15030**
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Bozzo, E. On algebras having displacement structure. (English summary) **99g:15027**
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Chen, Shencan A criterion for a matrix to be generalized strictly diagonally dominant. (Chinese. English summary) **99h:15022**
Cheon, Gi-Sang (*with* Johnson, Charles Royal; Lee, Sang-Gu; Pribble, E. J.) The possible numbers of zeros in an orthogonal matrix. (English summary) **99h:15023**
Chugunov, V. N. *see* **Ikramov, Khakim D., 99e:15028**
Dieci, Luca Real Hamiltonian logarithm of a symplectic matrix. (English summary) **99i:15033**
Di Fiore, Carmine *see* **Bevilacqua, R.; et al., 99g:15026**
Elsner, Ludwig (*with* Hershkowitz, Daniel) Hadamard functions preserving nonnegative H-matrices. (English summary) **99g:15028**
— (*with* Szulc, Tomasz) Block P-matrices. (English summary) **99c:15044**
Fasino, Dario Spectral properties of Toeplitz-plus-Hankel matrices. (English summary) **99g:15029**
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— (*with* Petronilho, J.) Path polynomials of a circuit: a constructive approach. (English summary) **99f:15034**
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— Generalized Cauchy-Vandermonde matrices. (English summary) **99a:15008**
— (*with* Bojanczyk, Adam) Transformation techniques for Toeplitz and Toeplitz-plus-Hankel matrices. II. Algorithms. (English summary) **99i:15034**
Hershkowitz, Daniel (*with* Mashal, Nira) P^o-matrices and Lyapunov scalar stability. (English summary) **99k:15039**
— *see also* **Elsner, Ludwig, 99g:15028**
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— Completions of M-matrix patterns. (English summary) **99i:15035**
Huang, Ting Zhu (*with* Pu, He Ping) (Block) H-matrices and sub-positive definite matrices. (Chinese. English and Chinese summaries)
Ikramov, Khakim D. On the normal dilatation of triangular matrices. (Russian. Russian summary) **99f:15035**
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— On products of symmetric, skew-symmetric, Hermitian and involutory matrices. (Russian. Russian summary) **99e:15027**
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Li, Xun[2] Subnormal matrices. (Chinese. English and Chinese summaries)
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Luccio, Fabrizio (*with* Pagli, Linda) Normal matrices, pseudo-cubes and pseudo-products. (English summary) **99i:15036**
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Shen, Guang Xing Some new conditions for a matrix to be a nonsingular H-matrix. (Chinese. English and Chinese summaries)
Stuart, Jeffrey L. (*with* Weaver, James R.) Fiedler matrices and their factorization. (English summary) **99f:15037**
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— *see also* **Gao, Fu Shun**
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Wang, Bo Ying[1] (*with* Zhang, Fuzhen) On zero-one symmetric and normal matrices. (English and Chinese summaries) **99i:15038**
Wang, Chuan Long K-diagonally dominant matrices. (Chinese. English and Chinese summaries)
Wang, Wei Xian (*with* Wang, Zhi Wei) Two classes of generalized symmetric matrices and their applications. (Chinese. English and Chinese summaries)
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— (*with* Meini, Beatrice) Inverting block Toeplitz matrices in block Hessenberg form by means of displacement operators: application to queueing problems. (English summary) **99b:65055**
Cen, Jian Miao *see* **Lu, Zhongjian, 99e:15018**
Chien, Mao-Ting (*with* Neumann, Michael) Positive definiteness of tridiagonal matrices via the numerical range. (English summary) **99f:15038**
Curto, Raúl E. (*with* Fialkow, Lawrence A.) Flat extensions of positive moment matrices: recursively generated relations. (English summary) **99d:47015**
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Drury, S. W. Trace class multipliers and spectral variation of normal matrices. (English summary) **99h:15016**
Ellis, Robert Lee (*with* Gohberg, Israel) Inversion formulas for infinite generalized Toeplitz matrices. (English summary) **99f:47034**
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15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [see also 65F35, 65J05]

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Criscuolo, A. (*with* Đurđević, Mićo; Rosenbaum, Marcos; Vergara, J. David) Quantum spinors and spin groups from quantum Clifford algebras. (English summary) **99a:81063**
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Fauser, Bertfried Dirac theory from a field-theoretic point of view. (English summary) **99h:81074**
— On an easy transition from operator dynamics to generating functionals by Clifford algebras. (English summary) **99h:81075**
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Harleston L., Hugh *see* **Rosenbaum, Marcos; et al.**, 99b:53019
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Imaeda, K. Biquaternionic formulation of Maxwell's equations and their solutions. (English summary) **99a:81065**
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Kanzaki, Teruo Trace forms of algebras over a commutative ring with orderings. (English summary) **99k:16035**
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— *see also* **Gusiew-Czudżak, Magdalena**, 99a:81064
Koshlukov, Plamen Finitely based ideals of weak polynomial identities. (English summary) **99i:16048**
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Ławrynowicz, Julian (*with* Suzuki, Osamu) The twistor theory of the Hermitian Hurwitz pair $(\mathbf{C}^4(I_{2,2}), \mathbf{R}^5(I_{2,3}))$. (English summary) **99j:32035**
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Marchuk, N. G. Dirac γ-equation, classical gauge fields and Clifford algebra. (English summary) **99m:81087**
Merlier, Thérèse ★ Exercices corrigés sur les formes quadratiques et groupes classiques. (French. French summary) [Quadratic forms and classical groups: exercises with answers] **99m:11048**
Micali, Artibano Formes quadratiques de Hardy-Weinberg et algèbres de Clifford. II. (English and French summaries) [Hardy-Weinberg quadratic forms and Clifford algebras. II] **99f:17039**
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Roberts, D. E. A vector Chebyshev algorithm. (English summary) **99d:65085**
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Salam, Ahmed Formal vector orthogonal polynomials. (English summary) **99e:42040**
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Simulik, V. M. (*with* Krivskiĭ, I. Yu.) Bosonic symmetries of the massless Dirac equation. (English summary) **99m:81089**
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Sommen, Franciscus (*with* Van Lancker, P.) A product for special classes of monogenic functions and tensors. (English summary) **99b:30065**
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— (*with* Rodrigues, Waldyr Alves, Jr.) Maxwell and Dirac theories as an already unified theory. (English summary) **99k:81100**
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Collected Works:
Chevalley, Claude C. *see* **Chevalley, Claude**, 99f:01028

15A69 Multilinear algebra, tensor products

Darafsheh, M. R. (*with* Pournaki, M. R.) On the dimensions of cyclic symmetry classes of tensors. (English summary) **99g:15040**
Lei, Tian-Gang (*with* Wang, Bo Ying[1]) Indices and nonzero decomposable elements of a symmetry class of tensors. (English summary) **99k:15048**
Pournaki, M. R. *see* **Darafsheh, M. R.**, 99g:15040
Wang, Bo Ying[1] *see* **Lei, Tian-Gang**, 99k:15048

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Lu, Jia (*with* Papadopoulos, Panayiotis) Representations of Kronecker powers of orthogonal tensors with applications to material symmetry. (English summary) **99h:73015**
Moreno Galindo, A. (*with* Rodríguez-Palacios, Ángel) Algebra norms on tensor products of algebras, and the norm extension problem. (English summary) **99f:46076**
Papadopoulos, Panayiotis *see* **Lu, Jia**, 99h:73015
Rodríguez-Palacios, Ángel *see* **Moreno Galindo, A.**, 99f:46076
Shahabi Shojaei, M. A. *see* **Shahryari, M.**

Shahryari, M. (*with* Shahabi Shojaei, M. A.) On a permutation character of S_m. (English summary)
Sommen, Franciscus (*with* Van Lancker, P.) A product for special classes of monogenic functions and tensors. (English summary) **99b:30065**
Van Lancker, P. *see* **Sommen, Franciscus, 99b:30065**

15A72 Vector and tensor algebra, theory of invariants [see also 13A50, 14D25]

Chan, Wendy Classification of trivectors in 6-D space. (English summary) **99j:15038**
Leibovici, Didier (*with* Sabatier, Robert) A singular value decomposition of a k-way array for a principal component analysis of multiway data, PTA-k. (English summary) **99b:15039**
Sabatier, Robert *see* **Leibovici, Didier, 99b:15039**
Shahabi Shojaei, M. A. *see* **Shahryari, M., 99b:15040**
Shahryari, M. (*with* Shahabi Shojaei, M. A.) A survey of modular symmetry classes of tensors. (English summary) **99b:15040**

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Ahmad, Hamza (*with* Hajja, Mowaffaq; Kang, Ming-chang) Negligibility of projective linear automorphisms. (English summary) **99c:13008**
Bao, Gang[2] *see* **Smith, G. F., 99a:73004**
Brihaye, Yves (*with* Kosiński, Piotr) Quasi-exactly solvable matrix models in sl(n). (English summary) **99h:81062**
Domokos, Mátyás Invariants of quivers and wreath products. (English summary) **99g:16043**
Gokhman, A. O. On the representation of smooth invariants of Coxeter groups in terms of anisotropic spaces. (Russian. English and Ukrainian summaries) **99a:20039**
Guralnick, Robert M. Invertible preservers and algebraic groups. II. Preservers of similarity invariants and overgroups of $PSL_n(F)$. (English summary) **99m:20108**
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Kang, Ming-chang *see* **Ahmad, Hamza; et al., 99c:13008**
Kemper, Gregor Lower degree bounds for modular invariants and a question of I. Hughes. (English summary) **99f:13004**
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Lei, Tian-Gang (*with* Wang, Bo Ying[1]) Indices and nonzero decomposable elements of a symmetry class of tensors. (English summary) **99k:15048**
Masala, Giovanni Théorèmes de congruence pour triplets de points dans les variétés de Grassmann $G_2(\mathbf{R}^N)$. (Italian summary) [Congruence theorems for triplets of points in Grassmann manifolds $G_2(\mathbf{R}^N)$] **99j:53070**
Smith, G. F. (*with* Bao, Gang[2]) Isotropic invariants of traceless symmetric tensors of orders three and four. (English summary) **99a:73004**
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Xiao, Heng A unified theory of representations for scalar-, vector- and second order tensor-valued anisotropic functions of vectors and second order tensors. (English summary) **99c:73013**
Xu, Xiaoping Differential invariants of classical groups. **99j:58229**

15A75 Exterior algebra, Grassmann algebras

Faugeras, Olivier (*with* Papadopoulo, Théodore) Grassmann-Cayley algebra for modelling systems of cameras and the algebraic equations of the manifold of trifocal tensors. (English summary) **99c:15049**
Papadopoulo, Théodore *see* **Faugeras, Olivier, 99c:15049**

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Backhouse, N. B. (*with* Fellouris, A. G.) The supertrace on the Grassmann envelope $\mathbf{M}(m, n; \Lambda)$. (English summary) **99e:17042**
Domokos, Mátyás Cayley-Hamilton theorem for 2×2 matrices over the Grassmann algebra. (English summary) **99j:16012**
Fellouris, A. G. *see* **Backhouse, N. B., 99e:17042**
Grosshans, Frank D. Invariant theory, orbits and non-decomposable quadruples of subspaces having non-zero defect. (English summary) **99h:14047**
Grothendieck, Alexander La théorie de Fredholm. [Fredholm's theory] (*see* **99f:00034**)
Kozlov, S. E. Geometry of real Grassmannian manifolds. I, II, III. (Russian. English and Russian summaries) **99d:53051**
Sviridova, I. Varieties and algebraic algebras of bounded degree. (English summary) **99i:16049**

15A78 Other algebras built from modules

Items with secondary classifications in 15A78

Oziewicz, Zbigniew Clifford algebra for Hecke braid. (English summary) **99d:81063**

15A90 Applications of matrix theory to physics

Silva, Ronaldo Rodrigues The trace formulas yield the inverse metric formula. (English summary) **99f:15042**

Items with secondary classifications in 15A90

de Aquino, V. M. *see* **Bellandi Filho, J.; et al., 99k:22012**
Bellandi Filho, J. (*with* Guzzo, M. M.; Fleitas, J. R.; de Aquino, V. M.) On the matricial representations of exponential operators. (English summary) **99k:22012**
Borobia, Alberto *see* **Kästner, J.; et al., 99f:15025**
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Kästner, J. (*with* Borobia, Alberto; Dress, Andreas W. M.; Zylka, Ch.) Extremal majorizing and anti-majorizing matrices. (English summary) **99f:15025**
Rindler, Wolfgang (*with* Robinson, Ivor) A plain man's guide to bivectors, biquaternions, and the algebra and geometry of Lorentz transformations. (English summary) **99m:83008**
Robinson, Ivor *see* **Rindler, Wolfgang, 99m:83008**
Zylka, Ch. *see* **Kästner, J.; et al., 99f:15025**

15A99 Miscellaneous topics

Abdukhalikov, K. S. (*with* Kim, Chul) Fuzzy multilinear mappings. (English summary)
Bakonyi, Mihály (*with* Johnson, Charles Royal; Stanford, David P.) Sign pattern matrices that require domain-range pairs with given sign patterns. (English summary) **99j:15039**
Beker, Henry J. Special polynomials by matrix algebra.
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Das, Gokulananda *see* **Maggu, P. L.**
Ding, Kuo-Shun (*with* Ho, Ching-Tien; Tsay, Jyh-Jong) Matrix transpose on meshes with wormhole and XY routing. (English summary) **99d:15022**
Eke, Boniface I. A fuzzy interpretation of linear systems. (English summary) **99c:15050**
Fan, Zhou-Tian A note on the power sequence of a fuzzy matrix. (English summary) **99j:15040**
Hartfiel, D. J. (*with* Rothblum, Uriel G.) Convergence of inhomogenous products of matrices and coefficients of ergodicity. (English summary) **99g:15041**
Ho, Ching-Tien *see* **Ding, Kuo-Shun; et al., 99d:15022**
Johnson, Charles Royal (*with* Waters, Charles) Sign patterns occurring in orthogonal matrices. (English summary) **99f:15043**
— *see also* **Bakonyi, Mihály; et al., 99j:15039**
Kim, Chul *see* **Abdukhalikov, K. S.**
Kwapisz, Marian The power of a matrix. (English summary)
Leng, Gang Song (*with* Zhang, Yao) Vertex angles for simplices. (English summary)
Lickteig, Thomas (*with* Roy, Marie-Françoise) Cauchy index computation. (English summary) **99g:15042**
Lin, Jun Chang A property of averages of matrices. (Chinese. Chinese summary)
Liz, Eduardo A note on the matrix exponential. (English summary)
Maggu, P. L. (*with* Das, Gokulananda) On the concept of division of matrices. (English summary)
Mukha, V. S. Differentiation of functions of symmetric matrices. (Russian. English and Russian summaries) **99b:15041**
Nylen, Peter Null space structure of tree-patterned matrices. (English summary) **99h:15030**
Peretz, Ronen Linear conditions for a polynomial $P(X, Y)$ to have younger mates. (English summary) **99m:15032**
Rothblum, Uriel G. *see* **Hartfiel, D. J., 99g:15041**
Roy, Marie-Françoise *see* **Lickteig, Thomas, 99g:15042**
Rudolf, Rüdiger On Monge sequences in d-dimensional arrays. (English summary) **99j:15041**
Schmale, Wiland Matrix cyclization over complex polynomials. (English summary) **99c:15051**
Shader, Bryan L. A simple proof of Fiedler's conjecture concerning orthogonal matrices. (English summary) **99c:15052**
Stanford, David P. *see* **Bakonyi, Mihály; et al., 99j:15039**
Stewart, G. W. On the adjugate matrix. (English summary) **99k:15049**
Sun, Jian Ping (*with* Zhang, Yan E; Wang, Xi Zhao) The solution of the fuzzy matrix equation $Ax = b$ and its properties. (Chinese. English and Chinese summaries)
Tsay, Jyh-Jong *see* **Ding, Kuo-Shun; et al., 99d:15022**
Uhlig, Frank Partial convergence and sign convergence of matrix powers via eigen c-ads. (English summary) **99d:15023**
Wang, Jie (*with* Zhang, Hua Guang) Duality of fuzzy vector spaces. (Chinese. English and Chinese summaries)
Wang, Xi Zhao *see* **Sun, Jian Ping; et al.**
Waters, Charles *see* **Johnson, Charles Royal, 99f:15043**
Wille, Uta Characterization of ordered bilinear contexts. (English summary) **99k:15050**
Zhang, Hua Guang *see* **Wang, Jie**
Zhang, Yan E *see* **Sun, Jian Ping; et al.**
Zhang, Yao *see* **Leng, Gang Song**

Items with secondary classifications in 15A99

Allen, Brian M. (*with* Rosenthal, Joachim) A matrix Euclidean algorithm induced by state space realization. (English summary) **99k:93033**
Defez, Emilio *see* **Jódar, Lucas, 99a:33007**
van Dijk, Marten A linear construction of secret sharing schemes. (English summary) **99f:68050**
Emmanouil, Ioannis Solvable groups and Bass' conjecture. (English and French summaries) **99h:19002**
Gaĭshun, I. V. Axiomatic approach to the concept of a fuzzy vector space. (Russian. English and Russian summaries) **99a:15001**
Gekhtman, Michael I. (*with* Shapiro, Mikhail) Completeness of real Toda flows and totally positive matrices. **99h:58085**
Golub, Gene H. (*with* Meurant, Gérard) Matrices, moments and quadrature. II. How to compute the norm of the error in iterative methods. (English summary) **99d:65090**
Jafarian, Ali A. (*with* Rodman, Leiba; Šemrl, Peter) Linear maps preserving the isomorphism class of lattices of invariant subspaces. (English summary) **99e:47012**
Jódar, Lucas (*with* Defez, Emilio) A connection between Laguerre's and Hermite's matrix polynomials. (English summary) **99a:33007**
Lee, Min Ho[1] Radon transforms, Laplacians, and flows for directed graphs. (English summary) **99h:05047**
Meurant, Gérard *see* **Golub, Gene H., 99d:65090**

Molnár, Lajos (*with* Šemrl, Peter) Order isomorphisms and triple isomorphisms of operator ideals and their reflexivity. (English summary) **99a:47054**
Mukherjea, Arunava Semigroups of $d \times d$ real matrices. (English summary) (*see* **99f:20003**)
Oliver, John S. Computation with DNA: matrix multiplication. (English summary) (*see* **99f:68002**)
Rodman, Leiba *see* **Jafarian, Ali A.; et al., 99e:47012**
Rosenthal, Joachim *see* **Allen, Brian M., 99k:93033**
Šemrl, Peter *see* **Molnár, Lajos, 99a:47054** *and* **Jafarian, Ali A.; et al., 99e:47012**
Shader, Bryan L. Sign-nonsingular matrices and orthogonal sign-patterns. (English summary) **99c:05040**
Shapiro, Mikhail *see* **Gekhtman, Michael I., 99h:58085**
Tamaki, Hisao (*with* Tokuyama, Takeshi) Algorithms for the maximum subarray problem based on matrix multiplication. (English summary) **99d:68123**
Tokuyama, Takeshi *see* **Tamaki, Hisao, 99d:68123**

16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 16–00

Faith, Carl ★ Rings and things and a fine array of twentieth century associative algebra. (English summary) **99j:01015**

16–01 Instructional exposition (textbooks, tutorial papers, etc.)

Lam, T. Y. ★ Lectures on modules and rings. (English summary) **99i:16001**

Items with secondary classifications in 16–01

Bergman, George M. ★ An invitation to general algebra and universal constructions. **99h:18001**
(Reid, Miles) *see* **Shafarevich, Igor R., 99g:00009**
Shafarevich, Igor R. ★ Basic notions of algebra. **99g:00009**

16–02 Research exposition (monographs, survey articles)

Puninskiĭ, G. E. (*with* Tuganbaev, Askar A.) ★ Кольца и модули. (Russian) [Rings and modules] **99i:16002**
Simson, Daniel Quivers, Dynkin diagrams, tameness and wildness in the representation theory of algebras. (Polish) **99k:16001**
Tuganbaev, Askar A. ★ Semidistributive modules and rings. (English summary) **99k:16002**
— *see also* **Puninskiĭ, G. E., 99i:16002**

Items with secondary classifications in 16–02

Bland, Paul E. ★ Topics in torsion theory. (English summary) **99h:16044**
Facchini, Alberto ★ Module theory. **99h:16004**
Reiten, Idun Tilting theory and quasitilted algebras. **99i:16028**

16–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 16–03

(Auslander, Maurice) *see* **Reiten, Idun, 99c:16011**
(Dickson, Leonard Eugene) *see* **Fenster, Della Dumbaugh, 99e:01020**
Faith, Carl ★ Rings and things and a fine array of twentieth century associative algebra. (English summary) **99j:01015**
Fenster, Della Dumbaugh Leonard Eugene Dickson and his work in the arithmetics of algebras. **99e:01020**
Kleiner, Israel From numbers to rings: the early history of ring theory. (German summary) **99d:01020**
(Noether, Emmy) *see* **Heritage of Emmy Noether, 99g:01001**
Reiten, Idun Old and recent work with Maurice. **99c:16011**
(Teicher, Mina) *see* **Heritage of Emmy Noether, 99g:01001**

Items listed otherwise than by author

Conference:
Heritage of Emmy Noether ★ The heritage of Emmy Noether. **99g:01001**
Heritage of Emmy Noether ★ The heritage of Emmy Noether. **99g:01001**
Memorial Volume:
Noether, Emmy ★ The heritage of Emmy Noether. **99g:01001**
Ramat-Gan ★ The heritage of Emmy Noether. **99g:01001**

16–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 16–04

de Graaf, W. A. (*with* Ivanyos, Gábor; Küronya, A.; Rónyai, Lajos) Computing Levi decompositions in Lie algebras. (English summary) **99a:17001**
Ivanyos, Gábor *see* **de Graaf, W. A.; et al., 99a:17001**
Keller, Benjamin J. Alternatives in implementing noncommutative Gröbner basis systems. (English summary) **99e:68075**
Küronya, A. *see* **de Graaf, W. A.; et al., 99a:17001**
Rónyai, Lajos *see* **de Graaf, W. A.; et al., 99a:17001**

16–06 Proceedings, conferences, collections, etc.

(Caenepeel, Stefaan) *see* **Rings, Hopf algebras, and Brauer groups, 99a:16001**
(Green, Edward L.[1]) *see* **Trends in the representation theory of finite-dimensional algebras, 99i:16003**
(Reiten, Idun) *see* **Algebras and modules, 99e:16001** *and* **99e:16002**
(Rowen, Louis H.) *see* **Ring theory, 99g:16001**
(Sakharova, V. P.) *see* **Algebra, 99m:16001**
(Smalø, Sverre O.) *see* **Algebras and modules, 99e:16001** *and* **99e:16002**
(Solberg, Øyvind) *see* **Algebras and modules, 99e:16001** *and* **99e:16002**
(Verschoren, Alain) *see* **Rings, Hopf algebras, and Brauer groups, 99a:16001**
(Zimmermann-Huisgen, Birge) *see* **Trends in the representation theory of finite-dimensional algebras, 99i:16003**

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Algebra ★ Algebra. 6. **99m:16001**
Algebras and modules ★ Algebras and modules. I. **99e:16001**
— ★ Algebras and modules. II. **99e:16002**
Antwerp ★ Rings, Hopf algebras, and Brauer groups. **99a:16001**
Brussels ★ Rings, Hopf algebras, and Brauer groups. **99a:16001**
Conference:
Representations of Algebras ★ Algebras and modules. I. **99e:16001**
— ★ Algebras and modules. II. **99e:16002**
Ring Theory ★ Ring theory. **99g:16001**
Trends in the Representation Theory of Finite-Dimensional Algebras ★ Trends in the representation theory of finite-dimensional algebras. **99i:16003**
Contemporary Mathematics ★ Trends in the representation theory of finite-dimensional algebras. **99i:16003**
Geiranger ★ Algebras and modules. II. **99e:16002**
Meeting:
Algebra and Algebraic Geometry ★ Rings, Hopf algebras, and Brauer groups. **99a:16001**
Miskolc ★ Ring theory. **99g:16001**
Ring theory ★ Ring theory. **99g:16001**
Rings, Hopf algebras, and Brauer groups ★ Rings, Hopf algebras, and Brauer groups. **99a:16001**
Seattle, WA ★ Trends in the representation theory of finite-dimensional algebras. **99i:16003**
Trends in the representation theory of finite-dimensional algebras ★ Trends in the representation theory of finite-dimensional algebras. **99i:16003**
Trondheim ★ Algebras and modules. I. **99e:16001**
Workshop:
Representations of Algebras and Related Topics ★ Algebras and modules. I. **99e:16001**

Items with secondary classifications in 16–06

(Dikranjan, Dikran N.) *see* **Abelian groups, module theory, and topology, 99f:00028**
(Orsatti, Adalberto) *see* **Abelian groups, module theory, and topology, 99f:00028**
(Passi, I. B. S.) *see* **Algebra, 99m:20001**
(Salce, Luigi) *see* **Abelian groups, module theory, and topology, 99f:00028**

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Abelian groups, module theory, and topology ★ Abelian groups, module theory, and topology. **99f:00028**
Algebra ★ Algebra. **99m:20001**
Birthday:
Orsatti, Adalberto ★ Abelian groups, module theory, and topology. **99f:00028**
Conference:
Abelian Groups and Modules ★ Abelian groups, module theory, and topology. **99f:00028**
Festschrift:
Orsatti, Adalberto ★ Abelian groups, module theory, and topology. **99f:00028**
Hopf algebras and quantum groups ★ Hoppu daisū to ryōshi gun. (Japanese) [Hopf algebras and quantum groups] **99a:00029**
Padua ★ Abelian groups, module theory, and topology. **99f:00028**
Symposium:
Hopf Algebras and Quantum Groups ★ Hoppu daisū to ryōshi gun. (Japanese) [Hopf algebras and quantum groups] **99a:00029**

16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [see also 18–XX]

Arkowitz, Martin Comultiplications in algebra and topology. (Italian summary) **99i:16004**
Dräxler, Peter (*with* Reiten, Idun; Smalø, Sverre O.; Solberg, Øyvind) Exact categories and vector space categories. (English summary) **99f:16001**
(Keller, Bernhard) *see* **Dräxler, Peter; et al., 99f:16001**
Martínez-Villa, Roberto Contravariantly finite subcategories and torsion theories. (English summary) **99b:16001**
Reiten, Idun *see* **Dräxler, Peter; et al., 99f:16001**
Smalø, Sverre O. *see* **Dräxler, Peter; et al., 99f:16001**
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Items with secondary classifications in 16B50

Krause, Henning Functors on locally finitely presented additive categories. **99d:18009**
Neuchl, Martin (*with* Schauenburg, Peter) Reconstruction in braided categories and a notion of commutative bialgebra. (English summary) **99b:18012**
Pareigis, Bodo On Lie algebras in braided categories. (English summary) **99a:16036**
Schauenburg, Peter *see* **Neuchl, Martin, 99b:18012**

16B70 Applications of logic [see also 03Cxx]

Items with secondary classifications in 16B70

Lombardi, Henri Relecture constructive de la théorie d'Artin-Schreier. (English and French summaries) [A constructive rereading of the Artin-Schreier theory] **99f:03088**
Prest, Mike Morphisms between finitely presented modules and infinite-dimensional representations. **99i:16027**
— The representation theories of elementarily equivalent rings. **99m:03070**

16B99 None of the above, but in this section

Daianu, Dan Selections of ring correspondence sums. (English summary)
Goze, Michel (*with* Makhlouf, Abdenacer) Classification of rigid associative algebras in low dimensions. **99a:16002**
Makhlouf, Abdenacer *see* **Goze, Michel, 99a:16002**

Synnatzschke, J. Zur Erzeugung von Algebren durch Unteralgebren mit Quadrat Null. (English summary) [On the generation of algebras by subalgebras with square zero] **99e:16003**

Vasantha Kandasamy, W. B. On a quasi-subset theoretic relation in a ring. (English summary)

Items with secondary classifications in 16B99

Gelashvili, T. M. Coset lattices and their geometry. (Russian. English and Georgian summaries)

Hoehnke, Hans-Jürgen Invariants of algebras and finite groups. (English summary) (*see* **99e:00015**)

Micali, Artibano *see* **da Motta Ferreira, João Carlos, 99c:46054**

da Motta Ferreira, João Carlos (*with* Micali, Artibano) Sur les algèbres nucléaires. (English summary) [On nuclear algebras] **99c:46054**

16Dxx Modules, bimodules and ideals

16D10 General module theory

Abd-Allah, A. M. (*with* Al-Hajri, N. A.) Direct product and direct sum of partial modules and free partial modules. (English and Arabic summaries) **99k:16003**

Al-Hajri, N. A. *see* **Abd-Allah, A. M., 99k:16003**

Ardila de la Peña, Victor Manuel (*with* Sabogal, Sonia) On the reciprocal of Schur's lemma. (Spanish. English and Spanish summaries)

Dauns, John Intersections of modules. (English summary) **99c:16001**

El Bashir, Robert (*with* Kepka, Tomáš) Modules commuting (via Hom) with some limits. (English summary) **99b:16002**

Ivanov, George Generalizing the Baer-Kaplansky theorem. (English summary) **99k:16004**

Kasch, Friedrich (*with* Schneider, Wolfgang Manfred) Exchange properties and the total. (English summary) **99c:16002**

Kepka, Tomáš *see* **El Bashir, Robert, 99b:16002**

Khan, Mohd Z. *see* **Singh, Surjeet, 99i:16005**

Krause, Henning (*with* Saorín Castaño, M.) On minimal approximations of modules. **99m:16002**

Loggie, William T. H. A simplified proof of Oshiro's theorem for co-H rings. **99h:16001**

Nuss, Philippe Noncommutative descent and non-abelian cohomology. (English summary) **99d:16001**

Oneto, Angel V. Purity and direct summands. (English and Spanish summaries)

Rada, Juan (*with* Saorín Castaño, M.) Rings characterized by (pre)envelopes and (pre)covers of their modules. **99f:16002**

Raggi, Francisco (*with* Rincón-Mejía, Hugo Alberto; Signoret P., Carlos J. E.) On some classes of R-modules and congruences in R-tors. **99m:16003**

Rincón-Mejía, Hugo Alberto *see* **Raggi, Francisco; et al., 99m:16003**

Růžička, Pavel (*with* Trlifaj, Jan; Žemlička, Jan) Criteria of steadiness. (English summary) **99k:16005**

Sabogal, Sonia *see* **Ardila de la Peña, Victor Manuel**

Saorín Castaño, M. *see* **Rada, Juan, 99f:16002** *and* **Krause, Henning, 99m:16002**

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Signoret P., Carlos J. E. *see* **Raggi, Francisco; et al., 99m:16003**

Singh, Surjeet (*with* Khan, Mohd Z.) TAG-modules with complement submodules h-pure. (English summary) **99i:16005**

Smith, Patrick F. Nonsingular extending modules. (English summary) **99d:16002**

Trlifaj, Jan *see* **Růžička, Pavel; et al., 99k:16005**

Tuganbaev, Askar A. Rings over which each module has a maximal submodule. (Russian. Russian summary) **99c:16003**

Wang, Ming Yi Some remarks on π-coherent rings. (Chinese. English and Chinese summaries)

Wisbauer, Robert Tilting in module categories. (English summary) (*see* **99f:00028**)

Žemlička, Jan *see* **Růžička, Pavel; et al., 99k:16005**

Items with secondary classifications in 16D10

Gnacadja, Gilles Ph. Phantom maps in the stable module category. (English summary) **99k:20020**

Grzeszczuk, Piotr (*with* Puczyłowski, Edmund R.) On finiteness conditions of modular lattices. (English summary) **99i:06007**

Jain, Surender Kumar (*with* Lam, T. Y.; Leroy, André) On uniform dimensions of ideals in right nonsingular rings. (English summary) **99k:16063**

Lam, T. Y. *see* **Jain, Surender Kumar; et al., 99k:16063**

Leroy, André *see* **Jain, Surender Kumar; et al., 99k:16063**

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Richman, Fred Flat dimension, constructivity, and the Hilbert syzygy theorem. (English summary) **99g:13021**

Tuo, Qing Generalized index and dimension formulas for vector spaces. (Chinese. English and Chinese summaries)

Yang, Chengli Characterization of Artinian semisimple rings via injectivity and projectivity classes. (English and Chinese summaries) **99h:16038**

16D15 1-sided ideals

Ferrero, Miguel A. (*with* Paques, Antonio) A note on the structure of distributive rings. (English summary) **99a:16003**

Hadas, Ofer On a bounded index version of Koethe's conjecture. (English summary) **99d:16003**

Paques, Antonio *see* **Ferrero, Miguel A., 99a:16003**

16D20 Bimodules

D'Este, Gabriella A theorem on extensions of bimodules. **99m:16004**

Ferrero, Miguel A. Some new results on closed submodules and ideals. (English summary) **99k:16006**

Items with secondary classifications in 16D20

Erdmann, Karin (*with* Snashall, Nicole) Preprojective algebras of Dynkin type, periodicity and the second Hochschild cohomology. **99h:16016**

— (*with* Snashall, Nicole) On Hochschild cohomology of preprojective algebras. I, II. (English summary) **99e:16013**

Fuller, Kent R. A note on quasi-duality. (English summary) **99i:16014**

Marcus, Andrei Equivalences induced by graded bimodules. (English summary) **99a:16039**

— On Picard groups and graded rings. **99c:16043**

Marubayashi, Hidetoshi (*with* Zhang, Yang[2]; Yang, Po) On the rings of the Morita context which are some well-known orders. (English summary) **99d:16036**

Snashall, Nicole *see* **Erdmann, Karin, 99e:16013** *and* **99h:16016**

Yang, Po *see* **Marubayashi, Hidetoshi; et al., 99d:16036**

Zhang, Pu[1] Hochschild cohomology of truncated basis cycle. (English summary) **99d:16010**

Zhang, Yang[2] *see* **Marubayashi, Hidetoshi; et al., 99d:16036**

16D25 2-sided ideals

Kim, Eun Sup (*with* Kim, Yun Jae; Park, Young Soo) Children ideals and children rings. (English summary) **99i:16006**

Kim, Yun Jae *see* **Kim, Eun Sup; et al., 99i:16006**

Kumar, Rajesh[1] Non-distributivity of the lattice of fuzzy ideals of a ring. (English summary)

Park, Young Soo *see* **Kim, Eun Sup; et al., 99i:16006**

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Hadas, Ofer On a bounded index version of Koethe's conjecture. (English summary) **99d:16003**

Pesch, Michael Two-sided Gröbner bases in iterated Ore extensions. (English summary) **99h:16042**

Petravchuk, A. On associative algebras which are sum of two almost commutative subalgebras. (English summary) **99k:16040**

Rowen, Louis H. (*with* Small, Lance) Primitive ideals of algebras. (English summary) **99e:16026**

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Taylor, John Prime ideals of fixed rings. (English summary) **99m:16054**

16D30 Maximal and prime 2-sided ideals [see also 16N60, 16D60], simple rings (except as in 16Kxx)

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Kim, Jin Yong *see* **Birkenmeier, Gary F.; et al., 99g:16002**

Miyachi, Jun-ichi Derived categories and Morita duality theory. (English summary) **99d:16004**

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Items with secondary classifications in 16D30

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Goodearl, K. R. (*with* Letzter, E. S.) Prime and primitive spectra of multiparameter quantum affine spaces. (English summary) **99h:16045**

Groenewald, N. J. *see* **Birkenmeier, Gary F., 99i:16061**

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Naveena Chandran, K. P. Prime ideals in generalized unique factorization rings. (English summary) **99k:16045**

Vonessen, Nikolaus Actions of algebraic groups on the spectrum of rational ideals. II. (English summary) **99k:16073**

16D40 Free, projective, and flat modules and ideals [see also 18G05, 19A13]

Asensio, M. J. (*with* López Ramos, J. A.; Torrecillas Jover, Blas) Gorenstein gr-flat modules. **99i:16007**

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Chen, Lan Qing PP rings and PF rings. (Chinese. English and Chinese summaries)

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Ding, Nan Qing (*with* Chen, Jian Long) Relative covers and envelopes. (Chinese. English and Chinese summaries) **99g:16003**

Gómez Pardo, José L. (*with* Guil Asensio, Pedro A.) When are all the finitely generated modules embeddable in free modules? **99d:16005**

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Han, Chang Woo[2] (*with* Choi, Su Jeong) Direct projective modules with the summand sum property. (English summary)

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Lashkhi, A. A. (*with* Kvirikashvili, T. G.) Perspective maps of modules. (English summary)

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Saleh, Mohammad A. A note on weak injectivity and weak projectivity (research note). (English and Arabic summaries)

Torrecillas Jover, Blas *see* **Asensio, M. J.; et al., 99i:16007**

Wu, Tong Suo Characterizing the wsr1 condition by completions of diagrams. (Chinese. English and Chinese summaries)

Xue, Wei Min[2] *see* **Zhou, De Xu**

Yang, Chengli Characterization of rings using pseudo-projective modules. (English and Chinese summaries) **99d:16006**

Zhou, De Xu (*with* Xue, Wei Min[2]) On $\mathscr{L}$-injective modules and $\mathscr{L}$-projective modules. (Chinese. English and Chinese summaries)

Items with secondary classifications in 16D40

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Ding, Nan Qing (*with* Chen, Jian Long) On a characterization of perfect rings. (English summary) **99k:16038**
Generalov, A. I. (*with* Zheludev, M. V.) Compatible decompositions of modules over Dedekind prime rings. (Russian. Russian summary) **99b:13014**
Hoshino, Mitsuo (*with* Sumioka, Takeshi) Injective pairs in perfect rings. **99i:16009**
Li, Fang[2] *see* **Liu, Zhong Kui, 99m:16070**
Liu, Zhong Kui (*with* Li, Fang[2]) PS-rings of generalized power series. **99m:16070**
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16D50 Injective modules, self-injective rings [see also 16L60, 18G05]

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16D60 Simple and semisimple modules, primitive rings and ideals

Liu, Xianzhong Conditions for a primitive ring to be a division ring. (English and Chinese summaries)

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16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation

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Peña P., Alirio J. On the Matlis-Papp invariants. (Spanish. English and Spanish summaries) **99e:16006**
Rim, Seog-Hoon (*with* Teply, Mark L.) Weak Baer modules localized with respect to a torsion theory. **99i:16058**
Smalø, Sverre O. (*with* Venås, Stig) Lengths of endomorphism rings of finitely generated indecomposable modules over Artin algebras. (English summary) **99a:16013**
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Wu, Zhi Xiang (*with* Xu, Yong Hua[1]) Rings whose injective hulls are cogenerators. (English summary) **99b:16035**
Xu, Yong Hua[1] *see* **Wu, Zhi Xiang, 99b:16035**

16D80 Other classes of modules and ideals [see also 16G60]

Çelik, Cesim CESS-modules. (English summary) **99d:16009**
Chen, Jian Hua[2] *see* **Wei, Jun Chao**
Fuller, Kent R. On reflexivity of representations of local commutative algebras. **99b:16005**
Güngöroglu, Gonca Coatomic modules. (English summary) **99i:16013**
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Li, Xiao Hong TPV-modules and TPV-rings. (Chinese. English and Chinese summaries)
Mai Qui Nam A result on CS-modules. (English summary)
Rothmaler, Philipp Mittag-Leffler modules. (English summary) **99b:16006**
Tuganbaev, Askar A. Modules over hereditary rings. (Russian. Russian summary) **99f:16007**
Wei, Jun Chao (*with* Chen, Jian Hua[2]) Liberal extensions and anti-simple primitive radicals. (Chinese. English and Chinese summaries)
Yi, Okyeon On locally nilpotent endomorphisms of Gorenstein injective modules. (English summary) **99k:16012**

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Lomp, Christian Modules whose small submodules have Krull dimension. (English summary) **99g:16027**
Tuganbaev, Askar A. ★ Semidistributive modules and rings. (English summary) **99k:16002**

16D90 Module categories [see also 16Exx, 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality

Abd-Allah, A. M. (*with* Al-Hajri, N. A.) Partial modules. (English and Arabic summaries) **99h:16005**
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— (*with* D'Este, Gabriella; Tonolo, Alberto) Corrigendum: "Quasi-tilting modules and counter equivalences" [J. Algebra **191** (1997), no. 2, 461–494; MR 98g:16003]. **99g:16008**
D'Este, Gabriella *see* **Colpi, Riccardo; et al., 99g:16008** *and* **99h:16006**
Farinati, Marco A. (*with* Solotar, Andrea) On the Picard group of involutive algebras and coalgebras. (English summary) **99e:16009**
Fuller, Kent R. A note on quasi-duality. (English summary) **99i:16014**
Grandjean, Françoise (*with* Vitale, Enrico M.) Morita equivalence for regular algebras. (French summary) **99h:16007**
Haghany, A. Hopficity and co-Hopficity for Morita contexts. (English summary) **99k:16013**
Happel, Dieter (*with* Zimmermann-Huisgen, Birge) Viewing finite-dimensional representations through infinite-dimensional ones. (English summary) **99m:16006**
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Kashu, A. I. The composition of dualities in a nondegenerate Morita context. (English summary) **99i:16015**
Menini, Claudia *see* **Phạm Ngọc Ánh; et al., 99k:16014**
Merisi, Piercarlo (*with* Vámos, Peter) On rings whose Morita class is represented by matrix rings. (English summary) **99f:16008**
Phạm Ngọc Ánh (*with* Herbera, Dolors; Menini, Claudia) AB-5* for module and ring extensions. **99k:16014**
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Verhaege, P. (*with* Verschoren, Alain) The Hermitian Morita theorems. (English and Spanish summaries) **99g:16009**
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Wisbauer, Robert *see* **Albu, Toma, 99b:16007**
Zhang, Sheng Gui[1] On polynomial rings over a ring with a selfduality. (English summary) **99c:16007**
— Graded Morita duality over strongly graded rings with enough nilpotent elements. (Chinese. English and Chinese summaries) **99a:16005**
Zhu, Bin[1] (*with* Wang, Wen Ju) Poset rings with Morita duality. (Chinese. English and Chinese summaries) **99f:16010**
Zimmermann-Huisgen, Birge *see* **Happel, Dieter, 99m:16006**

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— (*with* Vámos, Peter) Global Krull dimension and global dual Krull dimension of valuation rings. **99k:13012**
Assem, Ibrahim (*with* Marmaridis, Nikolaos) Tilting modules over split-by-nilpotent extensions. (English summary) **99f:16014**
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Cabanes, Marc Algèbres de Hecke comme algèbres symétriques et théorème de Dipper. (English and French summaries) [Hecke algebras as symmetric algebras and a theorem of Dipper] **99m:20018**
Castaño Iglesias, Florencio (*with* Gómez Torrecillas, José) Wide Morita contexts and equivalences of comodule categories. (English summary) **99d:16042**
García Rozas, J. R. (*with* Torrecillas Jover, Blas) Torsion injective covers and resolvents. **99b:16048**
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Jhingan, Sujal *see* **Barthwal, S.; et al., 99b:16003**
Kashu, A. I. ★ Функторы и кручения в категориях модулей. (Russian. English and Russian summaries) [Functors and torsions in categories of modules] **99j:16020**
Krause, Henning Exactly definable categories. **99j:18010**
— Representation type and stable equivalence of Morita type for finite-dimensional algebras. **99k:16024**
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Mezzetti, G. Topological Morita equivalences induced by ideals generated by dense idempotents. (English summary) **99a:16042**
Miyachi, Jun-ichi Derived categories and Morita duality theory. (English summary) **99d:16004**
Prest, Mike Interpreting modules in modules. (English summary) **99b:03051**
Smalø, Sverre O. (*with* Venås, Stig) Lengths of endomorphism rings of finitely generated indecomposable modules over Artin algebras. (English summary) **99a:16013**
Tonolo, Alberto On a duality with "less than usual" reflexive abstract modules. (English summary) **99m:16071**
Torrecillas Jover, Blas *see* **García Rozas, J. R., 99b:16048**
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Iancu, Lăcrimioara Redefining n-modules. (English summary)
van der Merwe, Brink Homogeneous maps and divisorial ideals. (English summary) **99h:16008**
Tang, Jiangang Invertibility of morphisms in the category of L-fuzzy left R-modules. (English summary)

Items with secondary classifications in 16D99

Chkhatarashvili, D. About the projective-affine relations in the modules. (English summary)

16Exx Homological methods and results [see also 18Gxx]

16E10 Homological dimension

Ajitabh, K. (*with* Smith, S. Paul; Zhang, James J.) Auslander-Gorenstein rings. (English

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Deng, Bangming A construction of algebras with arbitrary finite global dimensions. **99h:16009**
Enochs, Edgar E. (*with* García Rozas, J. R.) Gorenstein injective and projective complexes. (English summary) **99i:16016**
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Ajitabh, K. (*with* van den Bergh, Michel) Presentation of critical modules of GK-dimension 2 over elliptic algebras. (English summary) **99i:16046**
Angeleri-Hügel, Lidia (*with* Coelho, Flávio Ulhoa) A note on a certain class of tilted algebras. (English summary) **99h:16021**
Bauwens, Kristien (*with* van den Bergh, Michel) Normalizing extensions of the two-Veronese of a three-dimensional Artin-Schelter regular algebra on two generators. (English summary) **99e:16057**
van den Bergh, Michel *see* **Bauwens, Kristien, 99e:16057** *and* **Ajitabh, K., 99i:16046**
Buan, Aslak Bakke (*with* Solberg, Øyvind) Relative cotilting theory and almost complete cotilting modules. **99i:16022**
Coelho, Flávio Ulhoa On the number of indecomposable modules of infinite projective dimension. **99b:16014**
— *see also* **Angeleri-Hügel, Lidia, 99h:16021**
Dlab, Vlastimil *see* **Ágoston, István; et al., 99h:16031**
García Rozas, J. R. (*with* Torrecillas Jover, Blas) Torsion injective covers and resolvents. **99b:16048**
Green, Edward L.[1] (*with* Martínez-Villa, Roberto; Reiten, Idun; Solberg, Øyvind; Zacharia, D.) On modules with linear presentations. **99i:16075**
Guba, V. S. (*with* Pride, Stephen J.) On the left and right cohomological dimension of monoids. (English summary) **99d:20107**
Happel, Dieter (*with* Unger, Luise) Complements and the generalized Nakayama conjecture. (English summary) **99i:16024**
— (*with* Zimmermann-Huisgen, Birge) Viewing finite-dimensional representations through infinite-dimensional ones. (English summary) **99m:16006**
Lee, Chun-Nip On the finite generation of high-dimensional cohomology ring of virtually torsion-free groups. **99h:20085**
Liu, Zhong Kui Excellent extensions and coherent dimensions of rings. (English and Chinese summaries) **99m:16041**
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— *see also* **Happel, Dieter, 99m:16006**

16E20 Grothendieck groups, K-theory, etc. [see also 18F30, 19–XX]

Baccella, Giuseppe (*with* Ciampella, Adriana) K_0 of semi-Artinian unit-regular rings. (English summary) **99g:16011**
Ciampella, Adriana *see* **Baccella, Giuseppe, 99g:16011**
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Zhu, Xiao Sheng (*with* Tong, Wen Ting) Categories of power stably free modules and their K_0 groups. (English summary) **99b:16009**

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Chen, Huan Yin Exchange rings, related comparability and power-substitution. (English summary) **99f:16005**
Lenzing, Helmut (*with* Skowroński, Andrzej) On selfinjective algebras of Euclidean type. **99m:16038**
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16E30 Homological functors on modules

Abarbanel, Joseph On the Schur multiplier of augmented algebras. (English summary) **99f:16012**
van den Bergh, Michel Existence theorems for dualizing complexes over non-commutative graded and filtered rings. (English summary) **99b:16010**
Eilenberg, Samuel Foncteurs de modules et leurs satellites. [Functors of modules and their satellites] (*see* **99f:00033**)
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Gorenstein injective modules over Gorenstein rings. **99h:16011**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 99h:16011**
Nucinkis, Brita E. A. Complete cohomology for arbitrary rings using injectives. (English summary) **99h:16012**

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Benson, David John (*with* Wheeler, Wayne W.) Direct sum decompositions of infinitely generated modules. (English summary) **99m:20009**
Bolaños E., Gilda (*with* de la Peña, José Antonio) Algebras with vanishing $\mathrm{Ext}^2(X, X)$ for indecomposable modules. **99m:16025**
Carlson, Jon F. (*with* Peng, Chuang; Wheeler, Wayne W.) Transfer maps and virtual projectivity. (English summary) **99j:20005**
Colpi, Riccardo (*with* D'Este, Gabriella) Equivalences represented by faithful non-tilting $*$-modules. (English summary) **99h:16006**
— (*with* D'Este, Gabriella; Tonolo, Alberto) Corrigendum: "Quasi-tilting modules and counter equivalences" [J. Algebra **191** (1997), no. 2, 461–494; MR 98g:16003]. **99g:16008**
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— (*with* Zimmermann-Huisgen, Birge) Viewing finite-dimensional representations through infinite-dimensional ones. (English summary) **99m:16006**
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Rosenberg, Alexander L. Noncommutative schemes. (English summary) **99h:14002**
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Willaert, Luc Schematic algebras and the Auslander-Gorenstein property. (English and French summaries) **99a:14001**
Woodcock, D. Cohen-Macaulay complexes and Koszul rings. **99g:13025**
Zimmermann-Huisgen, Birge *see* **Happel, Dieter, 99m:16006**

16E40 Hochschild and other homology and cohomology theories for rings

Alev, J. (*with* Lambre, T.) Comparaison de l'homologie de Hochschild et de l'homologie de Poisson pour une déformation des surfaces de Klein. (English summary) [Comparison of the Hochschild homology and the Poisson homology for a Klein surface deformation] **99h:16013**
Arkhipov, S. M. Semiinfinite cohomology of quantum groups. (English summary) **99e:16012**
Bell, Steven (*with* Jones, Philip; Siemons, Johannes) On modular homology in the Boolean algebra. II. (English summary) **99a:16006**
Bella Baci, Abderrazak Homologie cyclique du produit croisé algébrique et groupes de surfaces. (English summary) [Cyclic homology of the algebraic crossed product and groups of surfaces] **99k:16015**
van den Bergh, Michel A relation between Hochschild homology and cohomology for Gorenstein rings. (English summary) **99m:16013**
Cibils, Claude Hochschild cohomology algebra of radical square zero algebras. (English summary) **99h:16014**
Cline, Edward (*with* Parshall, Brian; Scott, Leonard L.) Graded and non-graded Kazhdan-Lusztig theories. (English summary) **99h:16015**
Cuntz, Joachim Morita invariance in cyclic homology for nonunital algebras. (English summary) **99k:16016**
Dubois-Violette, Michel Generalized homologies for $d^N = 0$ and graded q-differential algebras. (English summary) **99g:16012**
Erdmann, Karin (*with* Snashall, Nicole) Preprojective algebras of Dynkin type, periodicity and the second Hochschild cohomology. **99h:16016**
— (*with* Snashall, Nicole) On Hochschild cohomology of preprojective algebras. I, II. (English summary) **99e:16013**
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— Leibniz homology of dialgebras of matrices. (English summary) **99g:16013**
Fresse, Benoit Homologie de Quillen pour les algèbres de Poisson. (English and French summaries) [Quillen homology for Poisson algebras] **99j:16001**

Gastaminza, S. (*with* de la Peña, José Antonio; Platzeck, María Inés; Redondo, María Julia; Trepode, S.) Finite-dimensional algebras with vanishing Hochschild cohomology. **99m:16009**
Gerstenhaber, Murray Deformation of towers of algebras and quantized intersection cardinality functions. (English summary) **99a:16007**
Guccione, Jorge A. (*with* Guccione, Juan J.) Hochschild homology of some quantum algebras. (English summary) **99h:16017**
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Guichardet, Alain Homologie de Hochschild des déformations quadratiques d'algèbres de polynômes. (English and French summaries) [Hochschild homology of quadratic deformations of algebras of polynomials] **99m:16010**
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Marcus, Andrei Homology of fully graded algebras, Morita and derived equivalences. (English summary) **99m:16011**
Nest, Ryszard (*with* Tsygan, Boris) The Fukaya type categories for associative algebras. **99b:16011**
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Puschnigg, Michael Explicit product structures in cyclic homology theories. **99j:16003**
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Redondo, María Julia (*with* Solotar, Andrea) Paracyclic complexes arising from α-derivations. **99i:16019**
— *see also* **Gastaminza, S.; et al., 99m:16009**
Schwede, Stefan An exact sequence interpretation of the Lie bracket in Hochschild cohomology. (English summary) **99m:16012**
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Smirnov, V. A.[2] Description of the homology of groups and algebras. (Russian. Russian summary) **99g:16014**
Snashall, Nicole *see* **Erdmann, Karin, 99e:16013** *and* **99h:16016**
Solotar, Andrea *see* **Redondo, María Julia, 99i:16019**
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Wheeler, Wayne W. *see* **Ramagge, Jacqui, 99b:16012**
Zhang, Pu[1] Hochschild cohomology of truncated basis cycle. (English summary) **99d:16010**
— Selforthogonal radical algebras. (English summary) **99i:16020**

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Dana-Picard, Thierry (*with* Schaps, Mary) Non-reduced components of Alg_n. (English summary) **99j:16019**
Dundas, Bjørn Ian K-theory theorems in topological cyclic homology. (English summary) **99h:19004**
Farinati, Marco A. (*with* Solotar, Andrea) Localization on (necessarily) topological coalgebras and cohomology. **99m:16058**
Goerss, P. G. (*with* Turner, James M.) Homotopy theory of simplicial abelian Hopf algebras. (English summary) **99k:18017**
Gräbe, H.-G. (*with* Vlasov, A. T.) On a formula of Coll-Gerstenhaber-Giaquinto. (English summary) **99k:16062**
Kassel, Christian (*with* Wambst, Marc) Algèbre homologique des N-complexes et homologie de Hochschild aux racines de l'unité. (English and French summaries) [Homology algebra of N-complexes and Hochschild homology at the roots of unity] **99d:18013**
Keller, Bernhard An overview of results on cyclic homology of exact categories. (English summary) **99j:18017**
Lykova, Zinaida A. Excision in Banach simplicial and cyclic cohomology. (English summary) **99e:46092**
— *see also* **Bade, W. G.; et al., 99g:46059**
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Nuss, Philippe Noncommutative descent and non-abelian cohomology. (English summary) **99d:16001**
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Schneider, Peter[1] Equivariant homology for totally disconnected groups. **99e:20066**
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16E50 von Neumann regular rings and generalizations

Burgess, W. D. (*with* Raphael, R. M.) On extensions of regular rings of finite index by central elements. (English summary) **99b:16013**
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Byott, Nigel P. Tame realisable classes over Hopf orders. (English summary) **99d:11120**
Choi, Eunmi (*with* Lee, Heisook; Shin, KyungHee) Schur groups of commutative rings. (English summary) **99i:13004**
Frossard, Emmanuelle Fibres dégénérées des schémas de Severi-Brauer d'ordres. [Degenerate fibers of Brauer-Severi schemes of orders] **99b:14006**
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— (*with* Zhang, Yin Huo) The Brauer group of a braided monoidal category. **99c:18006**
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Yang, Shilin (*with* Wang, Zhixi) Hopf actions and Azumaya algebras. (English summary) **99m:16068**
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16Kxx Division rings and semisimple Artin rings [see also 12E15, 15A30]

16K20 Finite-dimensional {For Brauer group theory, see 12Gxx, 13A20; for crossed products, see 16S35.}

van den Bergh, Michel Division algebras on $\mathbf{P}^2$ of odd index, ramified along a smooth elliptic curve are cyclic. (English and French summaries) **99d:16021**
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— *see also* **Gatsinzi, J.-B.**, **99g:16023**
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Zheng, Jiang Lin Using an equivalence relation in an integral domain to construct a division ring. (Chinese. English and Chinese summaries)

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Fajstrup, Lisbeth A $\mathbf{Z}/2$ descent theorem for the algebraic K-theory of a semisimple real algebra. (English summary) **99d:19002**
Godement, Roger Les fonctions ζ des algèbres simples. I. [The ζ-functions of simple algebras. I] (*see* **99f:00037**)
— Les fonctions ζ des algèbres simples. II. [The ζ-functions of simple algebras. II] (*see* **99f:00037**)
Gürsey, Feza (*with* Tze, Chia-Hsiung) ★On the role of division, Jordan and related algebras in particle physics. (English summary) **99g:81061**
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Parvathi, M. (*with* Kamaraj, M.) Signed Brauer's algebras. **99c:16028**
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Saltman, David J. Correction to: "Division algebras over p-adic curves" [J. Ramanujan Math. Soc. **12** (1997), no. 1, 25–47; MR 98d:16032]. **99k:16036**
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16K40 Infinite-dimensional and general

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— (*with* Jahani-Nezhad, R.) Value functions on simple Artinian rings. (English summary) **99f:16020**
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16Lxx Local rings and generalizations

16L30 Noncommutative local and semilocal rings, perfect rings

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Cedó, Ferran (*with* Rowen, Louis H.) Addendum to: "Examples of semiperfect rings" [Israel J. Math. **65** (1989), no. 3, 273–283; MR 90j:16054] by Rowen. (English summary) **99i:16037**
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16L60 Quasi-Frobenius rings [see also 16D50]

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Nicholson, W. K. (*with* Yousif, Mohamed F.) Annihilators and the CS-condition. (English summary) **99f:16003a**
— (*with* Yousif, Mohamed F.) Corrigendum: "Annihilators and the CS-condition". **99f:16003b**
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16L99 None of the above, but in this section

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Xue, Wei Min² A note on principally injective rings. (English summary) **99i:16010**

16Nxx Radicals and radical properties of rings

16N20 Jacobson radical, quasimultiplication

Krause, Henning On the nilpotency of the Jacobson radical for Noetherian rings. (English summary) **99e:16024**
Wang, Shu Gui Radicals of MHR rings. (Chinese. English and Chinese summaries)
Zhang, Shouchuan The Baer and Jacobson radicals of crossed products. (English summary) **99k:16039**

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Passman, Donald S. Semiprimitivity of group algebras: past results and recent progress. (English summary) **99a:16020**
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16N40 Nil and nilpotent radicals, sets, ideals, rings

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— Directed graphs and nilpotent rings. (English summary) **99m:16034**
Kim, Hong Kee *see* **Lee, Yang; et al., 99d:16022**
Kirichenko, V. V. (*with* Mashchenko, L. Z.; Yaremenko, Yu. V.) Decomposition theorems for associative rings. (Russian. English summary) (*see* **99g:20007**)
Lee, Yang (*with* Huh, Chan; Kim, Hong Kee) Questions on 2-primal rings. **99d:16022**
Mashchenko, L. Z. *see* **Kirichenko, V. V.; et al., (99g:20007)**
Petravchuk, A. On associative algebras which are sum of two almost commutative subalgebras. (English summary) **99k:16040**
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Birkenmeier, Gary F. (*with* Kim, Jin Yong; Park, Jae Keol) A characterization of minimal prime ideals. (English summary) **99g:16002**
Di Vincenzo, O. M. A note on kth commutators in an associative ring. (Italian summary) **99k:16070**
Kelarev, Andrei V. Semisimple rings graded by inverse semigroups. **99h:16069**
Kemer, A. R. PI-algebras and nil algebras of bounded index. (English summary) **99c:16021**
Kim, Jin Yong *see* **Birkenmeier, Gary F.; et al., 99g:16002**
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Kozhukhar′, E. P. On applications of the extremal words. (English, Russian and Moldavian summaries) **99h:16046**
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16N60 Prime and semiprime rings [see also 16D30, 16D60, 16U10]

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Buys, A. Uniformly strongly prime radicals. (English summary) **99k:16041**
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— *see also* **Brešar, Matej, 99h:16037**
Chen, Jian Hua² Fully prime rings. (Chinese. English and Chinese summaries) **99e:16025**
Chuang, Chen-Lian Invariant additive subgroups of simple rings. (English summary) **99m:16036**
De Filippis, V. (*with* Di Vincenzo, O. M.) On the generalized hypercentralizer of a Lie ideal in a prime ring. (English summary) **99k:16043**
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Rowen, Louis H. (*with* Small, Lance) Primitive ideals of algebras. (English summary) **99e:16026**
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Zhang, Xian Jun (*with* Yu, Shu Lan) Absolutely prime rings and absolutely prime radicals. (Chinese. English and Chinese summaries)

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Beidar, K. I. On functional identities and commuting additive mappings. (English summary) **99f:16023**
— (*with* Martindale, W. S., III) On functional identities in prime rings with involution. (English summary) **99f:16024**
van den Berg, John E. A note on uniform bounds of primeness in matrix rings. (English summary) **99g:16035**
Ceran, Şahin (*with* Ozturk, Ilhan) On α-derivation of prime rings. (English and Romanian summaries) **99c:16031**
Chang, Chi-Ming (*with* Lee, Tsiu-Kwen) Annihilators of power values of derivations in prime rings. (English summary) **99d:16039**
Chebotar, M. A. On generalized functional identities on prime rings. (English summary) **99e:16028**
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Ferrero, Miguel A. (*with* Paques, Antonio) A note on the structure of distributive rings. (English summary) **99a:16003**
Jain, Surender Kumar (*with* Lam, T. Y.; Leroy, André) On uniform dimensions of ideals in right nonsingular rings. (English summary) **99k:16063**
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Koryukin, A. N. Simplest algebraic dependences of skew derivations of prime rings. (Russian. Russian summary) **99b:16054**
Lam, T. Y. (*with* Leroy, André; Matczuk, J.) Primeness, semiprimeness and prime radical of Ore extensions. **99a:16023**
— *see also* **Jain, Surender Kumar; et al., 99k:16063**
Lanski, Charles The cardinality of the center of a PI ring. (English summary) **99b:16040**
Lee, Tsiu-Kwen (*with* Shiue, Wen-Kwei) Derivations cocentralizing polynomials. (English summary) **99k:16074**
— Differential identities of Lie ideals or large right ideals in prime rings. (English summary) **99k:16052**
— *see also* **Chang, Chi-Ming, 99d:16039**
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Wauters, Paul The semicentre of a group algebra. (English summary) **99k:16058**

16N80 General radicals and rings {For radicals in module categories, see 16S90.}

Beidar, K. I. On principally hereditary radicals. (English summary) **99i:16041**
— (*with* Fong, Yuen) On radicals of monomial algebras. (English summary) **99i:16042**
— (*with* Fong, Yuen; Ke, W.-F.) On complemented radicals. (English summary) **99a:16015**
Cai, Chuan Ren (*with* Fang, Hong Jin; Wei, Jun Chao) Graded antisimple radicals. (English summary) **99m:16037**
Fang, Hong Jin *see* **Cai, Chuan Ren; et al., 99m:16037**
Ferrero, Miguel A. (*with* Puczyłowski, Edmund R.) The singular ideal and radicals. (English summary) **99d:16024**
Fong, Yuen *see* **Beidar, K. I.; et al., 99a:16015** *and* **99i:16042**
France-Jackson, H. On special atoms. (English summary) **99c:16018**
Ke, W.-F. *see* **Beidar, K. I.; et al., 99a:16015**
McDougall, Robert A generalisation of the lower radical class. (English summary) **99k:16044**
Mlitz, R. (*with* Sands, A. D.; Wiegandt, Richárd) Radicals coinciding with the von Neumann regular radical on Artinian rings. (English summary) **99d:16025**
Puczyłowski, Edmund R. (*with* Smoktunowicz, Agata) On maximal ideals and the Brown-McCoy radical of polynomial rings. **99d:16026**
— *see also* **Ferrero, Miguel A., 99d:16024**
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Items with secondary classifications in 16N80

Arnautov, V. I. General theory of radicals of topological rings. (Russian. English summary) **99a:16041**
— The theory of radicals of topological rings. **99i:16077a**
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Buys, A. Uniformly strongly prime radicals. (English summary) **99k:16041**
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Lee, Yang (*with* Huh, Chan; Kim, Hong Kee) Questions on 2-primal rings. **99d:16022**

Parmenter, M. M. (*with* Spiegel, Eugene; Stewart, P. N.) The periodic radical of group rings and incidence algebras. (English summary) **99m:16044**
Spiegel, Eugene *see* **Parmenter, M. M.; et al., 99m:16044**
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Xi, Ou Gen Nil radicals of weaker Γ_N-rings. (Chinese. English and Chinese summaries)

16N99 None of the above, but in this section

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Janelidze, George (*with* Márki, László; Tholen, Walter) Locally semisimple coverings. (English summary) **99d:18010**
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Stokes, Tim Radical classes of algebras with B-action. (English summary) **99h:08002**
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16Pxx Chain conditions, growth conditions, and other forms of finiteness

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Zhu, Xiao Sheng Flat ascending and descending extensions of IF rings. (Chinese. English and Chinese summaries)

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Ferrero, Miguel A. Some new results on closed submodules and ideals. (English summary) **99k:16006**
Kitamura, Yoshimi A note on maximal quotient rings of finite normalizing quasi-Frobenius extensions. (English summary) **99i:16038**
Mulet, J. (*with* Verschoren, Alain) Strong biradicals and sheaves. **99f:16032**
Tanabe, Kazuyuki Infinite Galois theory of semisimple rings. **99h:16052**
Verschoren, Alain *see* **Mulet, J., 99f:16032**

16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]

Catoiu, Stefan Ideals of the enveloping algebra $U(\mathfrak{sl}_2)$. (English summary) **99b:16044**
Guédénon, Thomas Localisation dans les anneaux munis d'une action d'algèbre de Lie résoluble. [Localization in rings equipped with a solvable Lie algebra action] **99k:16054**
Ooms, Alfons I. Maximal subfields in the quotient division ring of an enveloping algebra. (*see* **99a:16001**)

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Arkhipov, S. M. Semiinfinite cohomology of quantum groups. (English summary) **99e:16012**
Benkart, Georgia Down-up algebras and Witten's deformations of the universal enveloping algebra of $\mathfrak{sl}_2$. **99m:17014**
van den Bergh, Michel A relation between Hochschild homology and cohomology for Gorenstein rings. (English summary) **99m:16013**
Braverman, Alexander (*with* Joseph, Anthony) The minimal realization from deformation theory. **99h:16043**
Cojocaru, Svetlana (*with* Ufnarovskiĭ, V. A.) BERGMAN under MS-DOS and Anick's resolution. (English summary) **99e:16017**
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Nakajima, Atsushi Cubic P-Galois extensions over a field. (English summary) **99m:16053**
Polo, Patrick Diagrammes de Dynkin et algèbres enveloppantes d'algèbres de Lie semi-simples. (English and French summaries) [Dynkin diagrams and enveloping algebras of semisimple Lie algebras] **99h:17015**
Price, Kenneth L. Homological properties of color Lie superalgebras. (English summary) **99e:17032**
Shirvani, Mazi (*with* Gonçalves, J. Z.) Free group algebras in the field of fractions of differential polynomial rings and enveloping algebras. (English summary) **99g:16033**
Ufnarovskiĭ, V. A. *see* **Cojocaru, Svetlana, 99e:16017**
Yanigasawa, Hibiki Quantization of Poisson algebras that are chord diagrams on curved surfaces. (Japanese) (*see* **99a:00029**)

16S32 Rings of differential operators [see also 13N10, 32C38]

Araujo, Jose (*with* Bratten, Tim) The Bernstein polynomial in one variable. (English summary) **99k:16055**
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Bratten, Tim *see* **Araujo, Jose, 99k:16055**
Bratti, G. On a noteworthy differential operator in the algebra of holonomic modules. (Italian. English and Italian summaries) **99c:16023**
Coutinho, S. C. d-simple rings and simple $\mathscr{D}$-modules. (English summary) **99j:16013**
Farkas, Daniel R. (*with* Letzter, Gail) Ring theory from symplectic geometry. (English summary) **99f:16026**
Letzter, Gail *see* **Farkas, Daniel R., 99f:16026**
Li, Hui Shi A survey of research on Weyl algebras. (Chinese. English and Chinese summaries) **99g:16031**
Liu, Jin Wang Some results on Gröbner bases of Weyl algebras. (Chinese. English and Chinese summaries)
Musson, Ian M. (*with* van den Bergh, Michel) Invariants under tori of rings of differential operators and related topics. (English summary) **99i:16051**
Verbovetskiĭ, A. M. On quantized algebra of Wess-Zumino differential operators at roots of unity. (English summary) **99j:16014**
Vinogradov, M. M. Remarks on algebraic Lagrangian formalism. (English summary) **99e:16029**

Zhelobenko, D. P. Differential operators and differential calculus in quantum groups. (Russian. Russian summary) **99k:16056**

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Bavula, Vladimir Krull, Gelfand-Kirillov, and filter dimensions of simple affine algebras. (English summary) **99i:16045**
Bekbaev, U. D. (*with* Rakhimov, I. S.) On the equivalence of linear ordinary differential equations defined over an associative differential ring. (Russian. English and Uzbek summaries) **99j:12003**
Carrà Ferro, Giuseppa A resultant theory for the systems of two ordinary algebraic differential equations. (English summary) **99c:13046**
Dumas, F. Sous corps complets des corps gauches de séries de Laurent à hautes dérivations. (French summary) [Complete subfields of division rings of higher-derivation Laurent series] **99c:16046**
— *see also* **Alev, J., 99g:16042**
Guédénon, Thomas Localisation dans les anneaux munis d'une action d'algèbre de Lie résoluble. [Localization in rings equipped with a solvable Lie algebra action] **99k:16054**
Knop, Friedrich Some remarks on multiplicity free spaces. (English summary) **99i:20056**
Levasseur, T. (*with* Stafford, J. T.) Differential operators commuting with invariant functions. (English summary) **99a:22025**
Marubayashi, Hidetoshi (*with* Yang, Po; Zhang, Yang[2]) Some examples of PBW extensions which are Krull orders. (English summary) **99d:16018**
Mathonet, Pierre Intertwining operators between some spaces of differential operators on a manifold. (English summary) **99m:58209**
Rakhimov, I. S. *see* **Bekbaev, U. D., 99j:12003**
Schwarz, Gerald W. On a homomorphism of Harish-Chandra. **99g:22015**
Stafford, J. T. *see* **Levasseur, T., 99a:22025**
Taniguchi, Kenji Uniqueness of algebras of Weyl group invariant differential operators. (Japanese) (*see* **99a:17002**)
Traves, William N. Nakai's conjecture for varieties smoothed by normalization. (English summary) **99j:13021**
Umeda, Tôru (*with* Wakayama, Masato) Another look at the differential operators on quantum matrix spaces and its applications. (English summary) **99c:17032**
Wakayama, Masato *see* **Umeda, Tôru, 99c:17032**
Yang, Po *see* **Marubayashi, Hidetoshi; et al., 99d:16018**
Zhang, Yang[2] *see* **Marubayashi, Hidetoshi; et al., 99d:16018**

16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

Arora, Satya R. (*with* Hales, A. W.; Passi, I. B. S.) The multiplicative Jordan decomposition in group rings. **99j:16015**
Baranov, Aleksandr A. (*with* Kleshchev, Alexander S.) Maximal ideals in modular group algebras of the finitary symmetric and alternating groups. **99d:16028**
Batir, N. *see* **Yilmaz, A.; et al.**
Burger, Marc (*with* Valette, Alain) Idempotents in complex group rings: theorems of Zalesskiĭ and Bass revisited. (English summary) **99j:16016**
Chadha, Gurmeet K. (*with* Passi, I. B. S.) Bass conjecture and the group trace property. **99g:16032**
Danchev, Peter Isomorphism of commutative semisimple group algebras. (English summary) **99f:16027**
Furukawa, Tôru A remark on torsion-free subgroups in group rings. **99k:16057**
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Hales, A. W. *see* **Arora, Satya R.; et al., 99j:16015**
Ivanov, D. N. $\mathscr{H}$-bijections of groups and $\mathscr{H}_R$-isomorphisms of group rings. (Russian. Russian summary) **99e:16030**
Kleshchev, Alexander S. *see* **Baranov, Aleksandr A., 99d:16028**
Krempa, Jan On reduced rings and number theory. (English summary) **99m:16042**
Kurdics, J. Engel properties of group algebras. II. (English summary) **99m:16043**
Liu, Chia-Hsin Group algebras with units satisfying a group identity. (English summary) **99f:16028**
— (*with* Passman, Donald S.) Group algebras with units satisfying a group identity. II. (English summary) **99f:16029**
Madlener, Klaus (*with* Reinert, Birgit) A generalization of Gröbner basis algorithms to polycyclic group rings. (English summary) **99d:16029**
Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Zassenhaus conjectures for infinite groups. (English summary) **99c:16024**
Parmenter, M. M. (*with* Spiegel, Eugene; Stewart, P. N.) The periodic radical of group rings and incidence algebras. (English summary) **99m:16044**
Passi, I. B. S. *see* **Chadha, Gurmeet K., 99g:16032** *and* **Arora, Satya R.; et al., 99j:16015**
Passman, Donald S. Semiprimitivity of group algebras: past results and recent progress. (English summary) **99a:16020**
— (*with* Wauters, Paul) Semi-invariants and weights of group algebras of finite groups. (English summary) **99h:16041**
— *see also* **Liu, Chia-Hsin, 99f:16029**
Reinert, Birgit *see* **Madlener, Klaus, 99d:16029**
Sehgal, Sudarshan K. *see* **Marciniak, Zbigniew S., 99c:16024**
Shirvani, Mazi (*with* Gonçalves, J. Z.) Free group algebras in the field of fractions of differential polynomial rings and enveloping algebras. (English summary) **99g:16033**
Spiegel, Eugene *see* **Parmenter, M. M.; et al., 99m:16044**
Stewart, P. N. *see* **Parmenter, M. M.; et al., 99m:16044**
Valette, Alain *see* **Burger, Marc, 99j:16016**
Vasantha Kandasamy, W. B. A note on group rings which are F-rings. (English summary)
Wauters, Paul Primitive localizations of group algebras of polycyclic-by-finite groups. (English summary) **99m:16045**
— The semicentre of a group algebra. (English summary) **99k:16058**
— *see also* **Passman, Donald S., 99h:16041**
Wiechecki, Łukasz Finitely generated group ring units. (English summary) **99b:16045**
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Yilmaz, A. (*with* Batir, N.; Yıldız, Mustafa) A note on idempotents of group algebra. (English summary)

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Coleman, Donald B. (*with* Sandling, Robert) Mod 2 group algebras with metabelian unit groups. (English summary) **99j:16021**
Dokuchaev, M. A. (*with* Singer, Maria Lucia Sobral) Units in group rings of free products of prime cyclic groups. (English summary) **99g:16039**
Giambruno, Antonio (*with* Jespers, Eric) Central idempotents and units in rational group algebras of alternating groups. (English summary) **99m:16048**
— (*with* Sehgal, Sudarshan K.; Valenti, Angela) Symmetric units and group identities. (English summary) **99k:16067**
Hill, Paul (*with* Ullery, William) The balanced-projective dimension of units in commutative modular group algebras. (English summary) **99h:16047**
Jespers, Eric *see* **Giambruno, Antonio, 99m:16048**
Kawata, Shigeto On Auslander-Reiten components and simple modules for finite group algebras. **99d:16015**
Kolikov, Kiril Kh. Principal ideals of crossed products. (English summary) **99m:16046**
Li, Yuanlin The hypercentre and the n-centre of the unit group of an integral group ring. (English summary) **99f:16034**
Madlener, Klaus (*with* Reinert, Birgit) String rewriting and Gröbner bases—a general approach to monoid and group rings. (English summary) **99e:68076**
Nebe, Gabriele The group ring of $SL_2(p^2)$ over the p-adic integers. (English summary) **99k:20102**
Neisse, Olaf (*with* Sehgal, Sudarshan K.) Units in integral group rings over Solomon fields. (English summary) **99j:16022**
— (*with* Sehgal, Sudarshan K.) Gauss units in integral group rings. **99e:16040**
Reinert, Birgit *see* **Madlener, Klaus, 99e:68076**
Rolfsen, Dale (*with* Zhu, Jun[1]) Braids, orderings and zero divisors. (English summary) **99g:20072**
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Shpilrain, Vladimir Generalized primitive elements of a free group. (English summary) **99j:20033**
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Snaith, Victor P. Hecke algebras and class-group invariants. (English summary) **99b:11129**
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— Wildness implies undecidability for lattices over group rings. **99i:03053**
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Yi, Zhong Injective homogeneity and homological homogeneity of the Ore extensions. (English summary) **99e:16011**
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16S35 Twisted and skew group rings, crossed products

Artamonov, V. A. Periodic modules over general quantum Laurent polynomials. (Russian. Russian summary) **99e:16031**
Dimitrova, J. M. Subrings and submodules of crossed products of groups and rings. **99f:16030**
Kolikov, Kiril Kh. On the ideals of twisted group rings.
— Principal ideals of crossed products. (English summary) **99m:16046**
Kursov, V. V. Crossed products of simple algebras. (Russian. English summary) (*see* **99g:20004**)
— Generalized crossed products of algebras. (Russian. English and Russian summaries)
Montgomery, Susan (*with* Witherspoon, S. J.) Irreducible representations of crossed products. (English summary) **99d:16030**
Sonin, K. I. Krull dimension of Malcev-Neumann rings. (English summary) **99i:16052**
Szeto, George Commutator subrings of a skew group ring. (English summary)
Wilke, Bernd ★ Zur Modulstruktur von Ringen über Schiefgruppenringen. (German) [On the modular structure of rings over skew group rings] **99a:16021**
Witherspoon, S. J. *see* **Montgomery, Susan, 99d:16030**

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Bulacu, D. (*with* Dăscălescu, Sorin; Grünenfelder, L.) Modules graded by G-sets: duality and finiteness conditions. **99d:16049**
Dade, Everett C. Blocks of fully graded rings. (English summary) **99b:16066**
Dăscălescu, Sorin *see* **Bulacu, D.; et al., 99d:16049**
García Rozas, J. R. (*with* Torrecillas Jover, Blas) Existence of covers over fixed rings. (English summary) **99e:16038**
Grünenfelder, L. *see* **Bulacu, D.; et al., 99d:16049**
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Rowen, Louis H. (*with* Saltman, David J.) Normalized Brauer factor sets. (English summary) **99f:16019**
Saltman, David J. *see* **Rowen, Louis H., 99f:16019**
Torrecillas Jover, Blas *see* **García Rozas, J. R., 99e:16038**
Wang, Shuan Hong (*with* Jiao, Zheng Ming; Zhao, Wen Zheng) Hopf algebra structures on crossed products. **99h:16067**
Zhang, Shouchuan The Baer and Jacobson radicals of crossed products. (English summary) **99k:16039**
Zhao, Wen Zheng *see* **Wang, Shuan Hong; et al., 99h:16067**

16S36 Ordinary and skew polynomial rings and semigroup rings [see also 20M25]

Fukuda, Nobuyuki[2] Finite-dimensional simple modules over quantised Weyl algebras.

(English summary) **99e:16032**
Gerritzen, L. Taylor expansion of noncommutative polynomials. (English summary) **99j:16017**
Giesbrecht, Mark Factoring in skew-polynomial rings over finite fields. (English summary) **99i:16053**
Golovashkin, A. V. (*with* Maksimov, V. M.) Skew Ore polynomials of higher orders generated by homogeneous quadratic relations. (Russian) **Jordan, David A.** Iterated skew polynomial rings and simple modules. **99a:16022**
Lam, T. Y. (*with* Leroy, André; Matczuk, J.) Primeness, semiprimeness and prime radical of Ore extensions. **99a:16023**
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Li, Xing Wu The right Noetherian property for semigroup rings. (Chinese. English and Chinese summaries)
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Matsuda, Ryûki Note on Schreier semigroup rings.
Pesch, Michael Two-sided Gröbner bases in iterated Ore extensions. (English summary) **99h:16042**
Rtveliashvili, E. On Crull [Krull] dimension of skew polynomial rings. (Russian and Georgian summaries) **99g:16034**
Sapanci, Mehmet *see* **Voskoglou, Michael G., 99d:16031**
Tripathi, S. P. On the Hopficity of the polynomial rings. (English summary) **99c:16025**
Voskoglou, Michael G. (*with* Sapanci, Mehmet) Principal ideals in skew polynomial rings. (English summary) **99d:16031**
— Automorphisms and f-simplicity in skew polynomial rings. (English summary) (*see* **99a:00037**)

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Améziane Hassani, Souad (*with* Dobbs, David E.; Kabbaj, Salah-Eddine) On the prime spectrum of commutative semigroup rings. (English summary) **99g:13002**
Araujo, Jose (*with* Bratten, Tim) The Bernstein polynomial in one variable. (English summary) **99k:16055**
Artamonov, V. A. Periodic modules over general quantum Laurent polynomials. (Russian. Russian summary) **99e:16031**
Bavula, Vladimir (*with* Van Oystaeyen, Freddy) Krull dimension of generalized Weyl algebras and iterated skew polynomial rings: commutative coefficients. (English summary) **99f:16021**
Bokut', L. A. Abstract semigroups and groups of formal series of dependent variables. (English summary) **99c:20093**
Bratten, Tim *see* **Araujo, Jose, 99k:16055**
Bruns, Winfried (*with* Gubeladze, Joseph; Ngô Việt Trung) Normal polytopes, triangulations, and Koszul algebras. **99c:52016**
Dobbs, David E. *see* **Améziane Hassani, Souad; et al., 99g:13002**
Drensky, Vesselin (*with* Yu, Jie-Tai) Test polynomials for automorphisms of polynomial and free associative algebras. (English summary) **99i:16062**
Freedman, Allen R. (*with* Gupta, R. N.; Guralnick, Robert M.) Shirshov's theorem and representations of semigroups. **99b:20098**
Goodearl, K. R. (*with* Letzter, E. S.) Prime and primitive spectra of multiparameter quantum affine spaces. (English summary) **99h:16045**
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Gupta, R. N. *see* **Freedman, Allen R.; et al., 99b:20098**
Guralnick, Robert M. *see* **Freedman, Allen R.; et al., 99b:20098**
Huh, Chan (*with* Lee, Yang) Finite filterations of iterated Ore extensions of Noetherian algebras. (English summary) **99j:16026**
Jespers, Eric (*with* Okniński, Jan) Binomial semigroups. (English summary) **99k:20119**
Kabbaj, Salah-Eddine *see* **Améziane Hassani, Souad; et al., 99g:13002**
Kosler, Karl A. Normalizing extensions and the second layer condition. (English summary) **99b:16043**
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Madlener, Klaus (*with* Reinert, Birgit) Relating rewriting techniques on monoids and rings: congruences on monoids and ideals in monoid rings. (English summary) **99m:68102**
Nakajima, Atsushi (*with* Sapanci, Mehmet) Left derivations on skew polynomial rings. (English summary) **99e:16044**
Ngô Việt Trung *see* **Bruns, Winfried; et al., 99c:52016**
Okniński, Jan *see* **Jespers, Eric, 99k:20119**
Puczyłowski, Edmund R. (*with* Smoktunowicz, Agata) On maximal ideals and the Brown-McCoy radical of polynomial rings. **99d:16026**
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Ribenboim, Paulo Semisimple rings and von Neumann regular rings of generalized power series. **99f:16013**
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Yi, Zhong Injective homogeneity and homological homogeneity of the Ore extensions. (English summary) **99e:16011**
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16S40 Smash products of general Hopf actions [see also 16W30]

Li, Jin Qi *see* **Wang, Shuan Hong, 99d:16032**
Wang, Shuan Hong (*with* Li, Jin Qi) On twisted smash products for bimodule algebras and the Drinfeld double. (English summary) **99d:16032**
Wang, Zhixi *see* **Yang, Shilin, 99k:16059**
Wei, Jun Chao Necessary and sufficient conditions for $A\#H^{*\mathrm{rat}}$ to be a prime subdirectly irreducible algebra. (Chinese. English and Chinese summaries) **99f:16031**
Yang, Shilin (*with* Wang, Zhixi) The semisimplicity of smash products of quantum commutative algebras. (English summary) **99k:16059**

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Bespalov, Yu. N. (*with* Drabant, Bernhard) Bicovariant differential calculi and cross products on braided Hopf algebras. (English summary) **99d:16041**
Chen, Hui Xiang Smashed extensions for Hopf algebra $\mathrm{SL}_q(2)$. (English summary)
— Braiding structures of double crossproducts. **99m:16057**
Dăscălescu, Sorin (*with* Năstăsescu, C.; Van Oystaeyen, Freddy; Torrecillas Jover, Blas) Duality theorems for graded algebras and coalgebras. **99c:16042**
— (*with* Raianu, Ş.; Van Oystaeyen, Freddy) Smash (co)products from adjunctions. **99g:16047**
Drabant, Bernhard *see* **Bespalov, Yu. N., 99d:16041**
Năstăsescu, C. *see* **Dăscălescu, Sorin; et al., 99c:16042**
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16S50 Endomorphism rings: matrix rings [see also 15–XX]

van den Berg, John E. A note on uniform bounds of primeness in matrix rings. (English summary) **99g:16035**
Birkenmeier, Gary F. (*with* Cho, Yong Uk) Additive endomorphisms generated by ring endomorphisms. **99k:16060**
Cho, Yong Uk *see* **Birkenmeier, Gary F., 99k:16060**
Dăscălescu, Sorin (*with* van Wyk, Leon) Complete blocked triangular matrix rings over a Noetherian ring. (English summary) **99i:16054**
Datta, Tarini Kumar (*with* Nath, H. K.) On the gamma-ring of $m \times n$ rectangular matrices. (English summary) **99i:16055**
El Amin, Kaidi *see* **Haily, Abdelfattah, 99d:16033**
Gaĭnov, A. T. Maximal annihilating spaces of symmetric and skew-symmetric matrices. (Russian. Russian summary) **99k:16061**
Göbel, Rüdiger (*with* Pabst, Simone) Endomorphism algebras over large domains. (English summary) **99b:16046**
Haily, Abdelfattah (*with* El Amin, Kaidi) Modules with a "nice" endomorphism ring and a new characterization of semisimple modules and rings. (English summary) **99d:16033**
Kelarev, Andrei V. (*with* van der Merwe, Andries B.; van Wyk, Leon) The minimum number of idempotent generators of an upper triangular matrix algebra. (English summary) **99g:16036**
van der Merwe, Andries B. *see* **Kelarev, Andrei V.; et al., 99g:16036**
Nath, H. K. *see* **Datta, Tarini Kumar, 99i:16055**
Okoh, Frank (*with* Zorzitto, F.) A family of commutative endomorphism algebras. (English summary) **99d:16034**
Pabst, Simone *see* **Göbel, Rüdiger, 99b:16046**
Qiu, Qi Zhang (*with* Sun, Ling) Minimal generating systems for rings of matrices over a division ring. (Chinese. English and Chinese summaries)
Rodinò, Nicola Cyclic modules over $\mathrm{End}(V_D)$ whose endomorphism ring is an ultrapower of D. (English summary) **99j:16018**
Simón Pinero, Juan Jacobo Finitely generated projective modules over row and column finite matrix rings. **99i:16056**
Smith, Kirby C. (*with* van Wyk, Leon) Generalized blocked triangular matrix rings associated with finite abelian centralizer near-rings. (English summary) **99a:16024**
Song, Young Kwon Maximal commutative subalgebras of matrix algebras. (English summary) **99m:16047**
Sun, Ling *see* **Qiu, Qi Zhang**
Tuganbaev, Askar A. Endomorphism rings of strictly indecomposable modules. (Russian)
Varadarajan, Kalathoor Perfect modules. (English summary) **99d:16035**
Wu, Tong Suo Endomorphism rings of regular modules. (Chinese. English and Chinese summaries) **99e:16033**
van Wyk, Leon Good ideals in blocked triangular matrix rings over division rings. **99g:16037**
— *see also* **Smith, Kirby C., 99a:16024**; **Kelarev, Andrei V.; et al., 99g:16036** *and* **Dăscălescu, Sorin, 99i:16054**
Zelmanowitz, Julius M. On the endomorphism ring of a discrete module: a theorem of F. Kasch. (English summary) **99e:16034**
Zorzitto, F. *see* **Okoh, Frank, 99d:16034**

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Barthwal, S. (*with* Jain, Surender Kumar; Kanwar, Pramod; López-Permouth, Sergio R.) Nonsingular semiperfect CS-rings. (English summary) **99h:16002**
Cabanes, Marc Algèbres de Hecke comme algèbres symétriques et théorème de Dipper. (English and French summaries) [Hecke algebras as symmetric algebras and a theorem of Dipper] **99m:20018**
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16S60 Rings of functions, subdirect products, sheaves of rings

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16S90 Maximal ring of quotients, torsion theories, radicals on module categories [see also 13D30, 18E40] {For radicals of rings see 16Nxx.}

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16Uxx Conditions on elements (including elements of matrix rings, etc.)

16U20 Ore rings, multiplicative sets, Ore localization

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16U30 Divisibility, noncommutative UFDs

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16U50 Algebraicity and local finiteness [see also 16N40]

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16U70 Center, normalizer (invariant elements)

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16U80 Generalizations of commutativity

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— Commutativity of torsion-free periodic rings. (English summary) **99g:16041**
Quadri, Murtaza A. (*with* Ali, Asma; Kumari, Achlesh) Structure of rings with some polynomial constraints. (English summary)
Silvestrov, Sergei D. On rings generalizing commutativity. (English summary) (*see* **99k:81007**)
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Items with secondary classifications in 16U80

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16Wxx Rings and algebras with additional structure

16W10 Rings with involution: Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

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16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings

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New Symmetries in the Theories of Fundamental Interactions ★ New symmetries in the theories of fundamental interactions. **99b:81004**
Workshop:
Coalgebraic Methods in Computer Science ★ First Workshop on Coalgebraic Methods in Computer Science (CMCS '98). **99e:68002**

16W50 Graded rings and modules

Artin, M. Some problems on three-dimensional graded domains. **99a:16037**
Bakhturin, Yu. A. (*with* Giambruno, Antonio; Riley, David Michael) Group-graded algebras with polynomial identity. (English summary) **99c:16041**
Bauwens, Kristien (*with* van den Bergh, Michel) Normalizing extensions of the two-Veronese of a three-dimensional Artin-Schelter regular algebra on two generators. (English summary) **99e:16057**
Bei, Shukun *see* **Wei, Jun Chao**; **et al.**, **99f:16046**
van den Bergh, Michel *see* **Bauwens, Kristien**, **99e:16057**
Bulacu, D. (*with* Năstăsescu, Sorin; Grünenfelder, L.) Modules graded by G-sets: duality and finiteness conditions. **99d:16049**
Chen, Jian Hua[2] *see* **Wei, Jun Chao**; **et al.**, **99f:16046**
Dade, Everett C. Blocks of fully graded rings. (English summary) **99b:16066**
Năstăsescu, Sorin (*with* Năstăsescu, C.; Van Oystaeyen, Freddy; Torrecillas Jover, Blas) Duality theorems for graded algebras and coalgebras. **99c:16042**
— *see also* **Bulacu, D.**; **et al.**, **99d:16049**
Giambruno, Antonio *see* **Bakhturin, Yu. A.**; **et al.**, **99c:16041**
Green, Edward L.[1] (*with* Martínez-Villa, Roberto) Koszul and Yoneda algebras. II. **99k:16091**
— (*with* Martínez-Villa, Roberto; Reiten, Idun; Solberg, Øyvind; Zacharia, D.) On modules with linear presentations. **99i:16075**
Grünenfelder, L. *see* **Bulacu, D.**; **et al.**, **99d:16049**
Guo, Jin Yun (*with* Martínez-Villa, Roberto; Takane, Martha) Koszul generalized Auslander regular algebras. (English summary) **99k:16092**
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— Two ring constructions and sums of fields. (English summary)
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— Green functors associated to a strongly graded algebra. **99e:16058**
— Equivalences induced by graded bimodules. (English summary) **99a:16039**
— On Picard groups and graded rings. **99c:16043**
— Projective modules over twisted group algebras of p-solvable groups. (English summary) **99m:16069**
Martínez-Villa, Roberto *see* **Green, Edward L.[1]**; **et al.**, **99i:16075**; **99k:16091** *and* **Guo, Jin Yun**; **et al.**, **99k:16092**
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Riley, David Michael *see* **Bakhturin, Yu. A.**; **et al.**, **99c:16041**
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Solberg, Øyvind *see* **Green, Edward L.[1]**; **et al.**, **99i:16075**
Takane, Martha *see* **Guo, Jin Yun**; **et al.**, **99k:16092**
Torrecillas Jover, Blas *see* **Năstăsescu, Sorin**; **et al.**, **99c:16042**
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— (*with* Van Rompay, Kristel; Willaert, Luc) Some quantum $\mathbf{P}^3$s with finitely many points. (English summary) **99c:16045**
Van Oystaeyen, Freddy *see* **Năstăsescu, Sorin**; **et al.**, **99c:16042**
Van Rompay, Kristel *see* **Vancliff, Michaela**, **99a:16040** *and* **99c:16045**
Wei, Jun Chao (*with* Bei, Shukun; Chen, Jian Hua[2]) Graded singular properties of graded quotient rings. (English summary) **99f:16046**
Willaert, Luc A new dimension for schematic algebras. (English summary) **99e:16060**
— *see also* **Vancliff, Michaela**; **et al.**, **99c:16045**
Xiao, Peng The graded Jacobson radical of polynomial rings. (Chinese. English and Chinese summaries)
— On polynomial modules. (Chinese. English and Chinese summaries)
Yuzvinsky, Sergey *see* **Shelton, Brad**, **99c:16044**
Zacharia, D. *see* **Green, Edward L.[1]**; **et al.**, **99i:16075**
Zhang, Sheng Gui[1] Graded rings and localizations. (Chinese. English and Chinese summaries) **99b:16068**

Items with secondary classifications in 16W50

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Arkhipov, S. M. Semiinfinite cohomology of quantum groups. (English summary) **99e:16012**
Asensio, M. J. (*with* López Ramos, J. A.; Torrecillas Jover, Blas) Gorenstein gr-flat modules. **99i:16007**
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van den Bergh, Michel *see* **Van Gastel, Martine**, **99c:16020**
Cai, Chuan Ren (*with* Fang, Hong Jin; Wei, Jun Chao) Graded antisimple radicals. (English summary) **99m:16037**
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Coutinho, S. C. d-simple rings and simple $\mathscr{D}$-modules. (English summary) **99j:16013**

Donin, J. (*with* Makar-Limanov, L.) Quantization of quadratic Poisson brackets on a polynomial algebra of three variables. (English summary) **99e:16036**
Drabant, Bernhard Differential Hopf algebra structure of the quantum standard complex. (English summary) **99b:17010**
Escoriza, J. (*with* Torrecillas Jover, Blas) Multiplication objects in commutative Grothendieck categories. **99d:18012**
Fang, Hong Jin *see* **Cai, Chuan Ren; et al., 99m:16037**
Farkas, Daniel R. (*with* Letzter, Gail) Ring theory from symplectic geometry. (English summary) **99f:16026**
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Jørgensen, Peter Non-commutative graded homological identities. (English summary) **99h:16010**
Kerner, Richard (*with* Niemeyer, Bernd) Covariant q-differential calculus and its deformations at $q^N = 1$. (English summary) **99f:58017**
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Niemeyer, Bernd *see* **Kerner, Richard, 99f:58017**
Rosenberg, Alexander L. Noncommutative schemes. (English summary) **99h:14002**
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Wei, Jun Chao *see* **Cai, Chuan Ren; et al., 99m:16037**
Willaert, Luc Schematic algebras and the Auslander-Gorenstein property. (English and French summaries) **99a:14001**
Zhang, James J. Linear modules over Sklyanin algebras are Cohen-Macaulay. **99c:16013**
Zhang, Sheng Gui[1] Graded Morita duality over strongly graded rings with enough nilpotent elements. (Chinese. English and Chinese summaries) **99a:16005**
Zhou, Meng On filtered modules with finitely generated associated graded modules over Zariski rings. (English summary) **99k:16093**

16W55 "Super" (or "skew") structure [see also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66.}

Montaner, Fernando On the Lie structure of associative superalgebras. (English summary) **99g:16055**
Racine, Michel L. Primitive superalgebras with superinvolution. (English summary) **99g:16056**

Items with secondary classifications in 16W55

Demidov, E. E. Noncommutative deformation of the Kadomtsev-Petviashvili hierarchy and the universal Grassmann manifold. (English summary) **99h:58082**
Gerdt, Vladimir P. (*with* Kornyak, Vladimir V.) An implementation in C of an algorithm for construction of finitely presented Lie superalgebras. (English summary) **99m:17001**
Gómez-Ambrosi, Carlos (*with* Shestakov, Ivan P.) On the Lie structure of the skew elements of a simple superalgebra with superinvolution. (English summary) **99j:17032**
Kornyak, Vladimir V. *see* **Gerdt, Vladimir P., 99m:17001**
Shestakov, Ivan P. Alternative and Jordan superalgebras. (Russian. Russian summary) **99g:17009**
— *see also* **Gómez-Ambrosi, Carlos, 99j:17032**
Szigeti, Jenő On the characteristic polynomial of supermatrices. (English summary) **99k:16051**

16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [see also 13Jxx]

Dumas, F. Sous corps complets des corps gauches de séries de Laurent à hautes dérivations. (French summary) [Complete subfields of division rings of higher-derivation Laurent series] **99c:16046**
Feinsilver, Philip (*with* Schott, René) Formal power series, operator calculus, and duality on Lie algebras. (English summary) **99g:16057**
Huh, Chan (*with* Lee, Yang) Finite filterations of iterated Ore extensions of Noetherian algebras. (English summary) **99j:16026**
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Liu, Jin Wang Properties of Gröbner algebras. (English and Chinese summaries)
Liu, Zhong Kui (*with* Li, Fang[2]) PS-rings of generalized power series. **99m:16070**
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Zhou, Meng On filtered modules with finitely generated associated graded modules over Zariski rings. (English summary) **99k:16093**

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van den Bergh, Michel Existence theorems for dualizing complexes over non-commutative graded and filtered rings. (English summary) **99b:16010**
Celeghini, Enrico *see* **Ballesteros, Angel; et al., 99f:81088**
Delon, Françoise (*with* Simonetta, Patrick) Undecidable wreath products and skew power series fields. **99b:03059**
Herranz, Francisco J. *see* **Ballesteros, Angel; et al., 99f:81088**
Jahani-Nezhad, R. *see* **Mahdavi-Hezavehi, M., 99f:16020**
Karner, Georg (*with* Kuich, Werner) A characterization of abstract families of algebraic power series. (English summary) **99e:68093**
Kassel, Christian (*with* Rosso, Marc; Turaev, Vladimir G.) ★ Quantum groups and knot invariants. (English, French, German and Russian summaries) **99b:57011**
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Radwan, Abdelaziz (*with* Van Oystaeyen, Freddy) Micro-structure sheaves, formal sheaves and quantum sections over projective schemes. **99b:16047**
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16W80 Topological and ordered rings and modules [see also 13Jxx]

Aamri, Mohamed *see* **El Miloudi, Marhrani, 99e:16062**
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Arnautov, V. I. General theory of radicals of topological rings. (Russian. English summary) **99a:16041**
— The theory of radicals of topological rings. **99i:16077a**
— Corrections to: "The theory of radicals of topological rings". **99i:16077b**
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Costash, A. I. (*with* Ursul, M. I.) Bounded subsets in some topological rings. (English, Russian and Moldavian summaries) **99c:16048**
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Manchanda, P. Hensel's lemma for normed rings. (English summary) **99b:16069**
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Mezzetti, G. Topological Morita equivalences induced by ideals generated by dense idempotents. (English summary) **99a:16042**
Popa, Valeriu Units, idempotents and nilpotents of an endomorphism ring. I. (English, Russian and Moldavian summaries) **99f:16048**
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— *see also* **Costash, A. I., 99c:16048**
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Farinati, Marco A. (*with* Solotar, Andrea) Localization on (necessarily) topological coalgebras and cohomology. **99m:16058**
Karazeris, Panagis Gabriel topologies on coherent quantales. (English summary) **99e:18004**
Solotar, Andrea *see* **Farinati, Marco A., 99m:16058**
Van Gastel, Martine (*with* van den Bergh, Michel) Graded modules of Gelfand-Kirillov dimension one over three-dimensional Artin-Schelter regular algebras. (English summary) **99c:16020**

16W99 None of the above, but in this section

Martínez Fernandez, Luis Prime and primary L-fuzzy ideals of L-fuzzy rings. (English summary)
Sharma, Ram Parkash (*with* Sharma, Samriti) On the range of a G-prime fuzzy ideal.
Sharma, Samriti *see* **Sharma, Ram Parkash**
Vasantha Kandasamy, W. B. On fuzzy near matrix rings.

Items with secondary classifications in 16W99

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Brenti, Francesco Hilbert polynomials in combinatorics. (English summary) **99e:13020**
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16Yxx Generalizations {For nonassociative rings, see 17–xx.}

16Y30 Near-rings [see also 12K05]

Boykett, Timothy H. H. (*with* Nöbauer, Christof) A class of groups which cannot be the additive groups of near-rings with identity. (English summary) **99i:16078**
Chandrasekhara Rao, K. (*with* Gopalakrishnamoorthy, G.) Certain near-rings are commutative rings. (English summary)
Cho, Yong Uk Near-rings with generalized chain conditions. (English summary) **99i:16079**
Dašić, V. (*with* Perić, V.) Near-rings with a minimal defect of distributivity. (English summary) **99c:16049**
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Kim, Hae Sik (*with* Kim, Eun Sup; Lee, Dong-Soo[1]; Park, Young Soo) Some structures of seminear-rings. (English summary) **99i:16080**
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Magill, Kenneth D., Jr. Functional equations and topological N-groups. (English summary) **99b:16070**
— The topological nearring on the Euclidean plane which has a left identity which is not a right identity.
Meldrum, J. D. P. (*with* Samman, M. S.) On free d.g. seminear-rings. (Italian summary) **99g:16059**
van der Merwe, Andries B. Near-rings of homogeneous maps. (English summary) **99i:16081**
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Scott, Stuart D. Transformation near-rings generated by a unit of order three. (English summary) **99m:16072**
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— (*with* van Wyk, Leon) Solution of the $\mathcal{J}_2$-radical problem in structural matrix near-rings. (English summary) **99g:16060**
Syskin, Sergei A. Isomorphic endomorphism near-rings. **99d:16052**
Veera Kumar, M. K. R. S. Some sandwich type near-rings. (English summary)
Veldsman, Stefan *see* **Petersen, Quentin N., 99a:16044**
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— *see also* **Smith, Kirby C., 99g:16060** *and* **99i:16082**
Youssef, Nabil L. Partial near-ring.

Items with secondary classifications in 16Y30

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Das, Pratyayananda *see* **Adhikari, M. R., 99d:55009**
Dašić, V. (R, S)-groups over near-rings with a defect of distributivity. (English summary)
Karthikeyan, C. Bicompletion of quasi-bitopological near-rings and quasi-bitopological N-groups. (English summary)
Magill, Kenneth D., Jr. The one-sided ideals of nearrings of continuous functions. **99d:54019**
— Endomorphism semigroups of nearrings of continuous real-valued functions. **99h:20096**
van der Merwe, Brink Homogeneous maps and divisorial ideals. (English summary) **99h:16008**
Scott, Stuart D. The structure of Ω-groups. **99c:08006**
Smith, Kirby C. (*with* van Wyk, Leon) Generalized blocked triangular matrix rings associated with finite abelian centralizer near-rings. (English summary) **99a:16024**
Vasantha Kandasamy, W. B. On fuzzy near matrix rings.
Wähling, Heinz Ordered nearfields. **99c:06021**
van Wyk, Leon *see* **Smith, Kirby C., 99a:16024**
Zayed, Maher On formal extensions of near-fields. (English summary)

16Y60 Semirings [see also 12K10]

Ahsan, Javed (*with* Shabir, Muhammad; Weinert, H. J.) Characterizations of semirings by P-injective and projective semimodules. (English summary) **99d:16053**
— Semirings characterized by their fuzzy ideals. (English summary) **99b:16071**
Biswas, B. K. *see* **Dutta, Tapan Kumar[1], 99f:16050**
Dutta, Tapan Kumar[1] (*with* Biswas, B. K.) Structure of fuzzy ideals of semirings. (English summary) **99f:16050**
Gunawardena, Jeremy An introduction to idempotency. **99b:16072**
Jun, Young Bae (*with* Neggers, J.; Kim, Hee Sik) On L-fuzzy ideals in semirings. I. (English summary) **99k:16095**
— (*with* Kim, Hee Sik) Finite valued fuzzy ideals in semirings. (English summary)
— *see also* **Neggers, J.; et al.**
Kim, Hee Sik *see* **Jun, Young Bae; et al., 99k:16095; Neggers, J.; et al.** *and* **Jun, Young Bae**
Litvinov, G. L. (*with* Maslov, V. P.) The correspondence principle for idempotent calculus and some computer applications. **99c:16050**
Maslov, V. P. *see* **Litvinov, G. L., 99c:16050**
Neggers, J. (*with* Jun, Young Bae; Kim, Hee Sik) Extensions of L-fuzzy ideals in semirings. (English summary)
— *see also* **Jun, Young Bae; et al., 99k:16095**
Pin, Jean-Éric Tropical semirings. **99a:16045**
Rao, M. Murali Krishna Γ-semirings. II.
Shabir, Muhammad *see* **Ahsan, Javed; et al., 99d:16053**
Wagneur, Edouard The geometry of finite-dimensional pseudomodules. (English summary) **99a:16046**
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Wang, Huaxiong On rational series and rational languages. (English summary) **99k:68114**

16Y99 None of the above, but in this section

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Chen, Qing Hua[2] *see* **Zheng, Chun Yang**
Chen, Wei Xin Radicals of Γ-rings determined by properties of elements. I. (Chinese. English and Chinese summaries)
Dramalidis, Achilles *see* **Spartalis, S.; et al.**
Fan, Fusheng (*with* Guo, Lingzhong) Group graded Gamma rings. (English summary) **99g:16061**
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Guo, Lingzhong *see* **Fan, Fusheng, 99g:16061**
Hong, Sung-Min (*with* Jun, Young Bae; Kim, Hee Sik) Fuzzy ideals in near-rings. (English summary) **99h:16072**
Iancu, Lăcrimioara (*with* Pop, Maria S.) A Post type theorem for (m, n) fields. (English and Romanian summaries) (*see* **99i:00027**)
Jun, Young Bae *see* **Hong, Sung-Min; et al., 99h:16072**
Kim, Hee Sik *see* **Hong, Sung-Min; et al., 99h:16072**
Kravchenko, Yu. V. Formation subalgebras of polyadic multirings. (Russian. English summary) **99m:16073**
Mukherjee, T. K. (*with* Sen, Mridul Kanti; Ghosh, Shamik) Additively cancellative congruences on hemirings. (English summary)
Olson, D. M. (*with* Ward, V. K.) A note on multiplicati.e hyperrings. (English summary)
Öztürk, M. A. (*with* Sapanci, Mehmet) Orthogonal symmetric bi-derivation on semi-prime gamma rings. (English and Turkish summaries) **99e:16063**
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Ren, Yan Li (*with* Wang, Yao) P-radicals, weak P-radicals and quasi-P-radicals of Γ-rings. (Chinese. English and Chinese summaries)
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Spartalis, S. (*with* Dramalidis, Achilles; Vougiouklis, Thomas) On H_V-group rings. (English summary)
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Wang, Ding Guo On derivations and commutativity for prime Γ-rings. (English summary) **99g:16062**
— On essential strong-nilpotency of Γ-rings. (English summary) **99d:16054**
Wang, Wan Yi The σ-structure of semimodules. III. (Chinese. English and Chinese summaries)
Wang, Yao *see* **Ren, Yan Li**
Wang, Zhudeng *see* **Wei, Jun**
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Wei, Jun (*with* Wang, Zhudeng) TL-submodules over TL-subrings. (English summary)
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17Axx General nonassociative rings

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17A40 Ternary compositions

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17A45 Quadratic algebras (but not quadratic Jordan algebras)

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17A70 Superalgebras

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17A80 Valued algebras

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El Amin, Kaidi (*with* Ramírez, Maria Isabel; Rodríguez-Palacios, Ángel) Absolute-valued algebraic algebras are finite-dimensional. (English summary) **99c:17004**
Ramírez, Maria Isabel *see* **El Amin, Kaidi; et al.**, **99c:17004**
Rodríguez-Palacios, Ángel *see* **El Amin, Kaidi; et al.**, **99c:17004**

17A99 None of the above, but in this section

Abian, Alexander (*with* Sverchkov, Sergei) The solvability of infinite systems of linear equations over division modules. (English summary)
Kamiya, Noriaki On isotopies of algebras and triple systems. (English summary) **99j:17006**
Sharma, R. N. *see* **Singh, Mithilesh Kumar**
Singh, Mithilesh Kumar (*with* Sharma, R. N.) Transformation of a module over an algebra onto its subalgebras. (English summary)
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Items with secondary classifications in 17A99

Brenig, Léon *see* **Figueiredo, Annibal; et al.**, **99h:34010**
Fernández López, Antonio[1] (*with* García Rus, Eulalia) Algebraic lattices and nonassociative structures. (English summary) **99a:06006**
Figueiredo, Annibal (*with* Rocha Filho, Tarcísio M.; Brenig, Léon) Algebraic structures and invariant manifolds of differential systems. (English summary) **99h:34010**
García Rus, Eulalia *see* **Fernández López, Antonio[1]**, **99a:06006**
Rocha Filho, Tarcísio M. *see* **Figueiredo, Annibal; et al.**, **99h:34010**

17Bxx Lie algebras and Lie superalgebras{For Lie groups, see 22Exx.}

Items with secondary classifications in 17Bxx

(Ferrar, J.) *see* **Monster and Lie algebras**, **99e:00021**
(Harada, Kōichirō) *see* **Monster and Lie algebras**, **99e:00021**

Items listed otherwise than by author

Columbus, OH ★ The Monster and Lie algebras. **99e:00021**
Conference:
Monster ★ The Monster and Lie algebras. **99e:00021**
Monster and Lie algebras ★ The Monster and Lie algebras. **99e:00021**

17B01 Identities, free Lie algebras

Andary, Philippe Finely homogeneous computations in free Lie algebras. (English summary) **99g:17010**
Bremner, Murray Lie invariants of degree ten. (English summary) **99h:17004**
Demisenov, B. N. (*with* Kukin, G. P.) On subalgebras of a Lie algebra with one defining relation. (Russian. Russian summary) **99a:17007**
Drensky, Vesselin (*with* Yu, Jie-Tai) Orbits in free algebras of rank two. (English summary) **99d:17003**
Ekici, Naime (*with* Temizyürek, Ahmet) A basis of the metabelian Lie product of Lie algebras. (English summary) **99g:17011**
Ermolaev, Yu. B. Universal Cartan extension. (Russian) **99c:17005**
Gerdt, Vladimir P. (*with* Kornyak, Vladimir V.) An algorithm for analysis of the structure of finitely presented Lie algebras. (English summary) **99e:17003**
Guilfoyle, Sean (*with* Stöhr, Ralph) Invariant bases for free Lie algebras. **99g:17012**
Hong, Jin (*with* Kwon, Jae-Hoon) Decomposition of free Lie algebras into irreducible components. (English summary) **99c:17006**
Kang, Seok-Jin Free Lie superalgebras and the generalized Witt formula. (English summary) **99i:17004**
Kornyak, Vladimir V. *see* **Gerdt, Vladimir P.**, **99e:17003**
Koseleff, Pierre-Vincent Relations among Lie-series transformations and isomorphisms between free Lie algebras. (English summary) **99e:17004**
Kukin, G. P. *see* **Demisenov, B. N.**, **99a:17007**
Kwon, Jae-Hoon *see* **Hong, Jin**, **99c:17006**
Mishchenko, S. P. The standard Lie identity in solvable varieties of associative type. (Russian. Russian summary) **99i:17005**
— A sufficient condition for the nilpotence of the commutant of a Lie algebra. (Russian) **99m:17004**
Patsourakos, Alexandros Tensor calculus in the free Lie algebra. (English summary) **99f:17003**
Petrogradskiĭ, V. M. Growth of polynilpotent varieties of Lie algebras, and rapidly increasing entire functions. (Russian. Russian summary) **99a:17008**
Stöhr, Ralph *see* **Guilfoyle, Sean**, **99g:17012**
Temizyürek, Ahmet *see* **Ekici, Naime**, **99g:17011**
Yu, Jie-Tai *see* **Drensky, Vesselin**, **99d:17003**
Zaĭtsev, M. V. Skew-symmetric identities in special Lie algebras. (Russian. Russian summary) **99i:17006**
— Varieties of affine Kac-Moody algebras. (Russian. Russian summary) **99g:17013**
— Finiteness conditions on special Lie algebras. **99c:17007**

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Bakhturin, Yu. A. (*with* Zaĭtsev, M. V.) Identities of graded algebras. **99f:17034**
Bogomolova, I. V. On the finite basability of some systems of Lie identities modulo Capelli identities. (Russian. Russian summary) **99h:16040**
Bokut', L. A. The method of Gröbner and Shirshov bases. (Russian. Russian summary) **99g:16030**
Cohen, Arjeh Marcel (*with* de Graaf, W. A.; Rónyai, Lajos) Computations in finite-dimensional Lie algebras. (English summary) **99g:17002**
Ermolaev, Yu. B. On a realization of a free Lie algebra. (Russian. Russian summary) **99g:17038**
Falbel, Elisha (*with* Koseleff, Pierre-Vincent) The number of sides of a parallelogram. (English summary) **99j:20040**
Gerdt, Vladimir P. (*with* Kornyak, Vladimir V.) An implementation in C of an algorithm for construction of finitely presented Lie superalgebras. (English summary) **99m:17001**
— (*with* Kornyak, Vladimir V.) A program for constructing a complete system of relations, basis elements and tables of commutators of finitely presented Lie algebras and superalgebras. (Russian. Russian summary) **99g:17001**
de Graaf, W. A. *see* **Cohen, Arjeh Marcel; et al.**, **99g:17002**
Jurisich, Elizabeth Generalized Kac-Moody Lie algebras, free Lie algebras and the structure of the Monster Lie algebra. (English summary) **99b:17032**
Kang, Seok-Jin Graded Lie superalgebras and the superdimension formula. (English summary) **99f:17036**
Kornyak, Vladimir V. *see* **Gerdt, Vladimir P.**, **99g:17001** *and* **99m:17001**
Koseleff, Pierre-Vincent *see* **Falbel, Elisha**, **99j:20040**
Lum, Kai Hing Lie algebras of an affinization of a generalized Cartan matrix. (English summary) **99c:17037**
Mikhalëv, A. A. (*with* Yu, Jie-Tai) Test elements, retracts and automorphic orbits of free algebras. (English summary) **99h:17002**
Papadima, Ştefan Campbell-Hausdorff invariants of links. (English summary) **99e:57018**
Rónyai, Lajos *see* **Cohen, Arjeh Marcel; et al.**, **99g:17002**
Traustason, Gunnar A constructive approach to Zel'manov's global nilpotency theorem for n-Engel Lie algebras over a field of characteristic zero. (English summary) **99d:17015**

Vaughan-Lee, Michael Superalgebras and dimensions of algebras. (English summary) **99a:17014**
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Zaĭtsev, M. V. *see* **Bakhturin, Yu. A., 99f:17034**

17B05 Structure theory

Alekseevskiĭ, D. V. (*with* Cortés Suárez, Vicente) Classification of N-(super)-extended Poincaré algebras and bilinear invariants of the spinor representation of $\mathrm{Spin}(p, q)$. (English summary) **99b:17004**
Ammar, Gregory S. (*with* Mehl, Christian; Mehrmann, Volker) Schur-like forms for matrix Lie groups, Lie algebras and Jordan algebras. (English summary) **99k:17007**
Aydin, Elâ *see* **Ekici, Naime, 99k:17008**
de Azcárraga, J. A. (*with* Herranz, Francisco J.; Pérez Bueno, J. C.; Santander, Mariano) Central extensions of the quasi-orthogonal Lie algebras. (English summary) **99d:17004**
Barannik, A. F. On subalgebras of the conformal algebra $AC(2, 2)$. (English summary) **99f:17004**
Barannik, L. F. On classification of subalgebras of the Poincaré algebra. (English summary) **99c:17008**
Baranov, Aleksandr A. On Lie subalgebras of locally finite-dimensional associative algebras. (Russian. English and Russian summaries) **99m:17005**
Cortés Suárez, Vicente *see* **Alekseevskiĭ, D. V., 99b:17004**
Dimou, G. Special Lie algebras in 12-dimensional complex space.
Doković, Dragomir Ž. Explicit Cayley triples in real forms of G_2, F_4 and E_6. (English summary) **99e:17005**
Ekici, Naime (*with* Aydin, Elâ) Residually finite subalgebras of Lie algebras. (English summary) **99k:17008**
Gouthier, Daniele Lie-CR-structures on a real Lie algebra. (English summary) **99c:17009**
Herranz, Francisco J. (*with* Pérez Bueno, J. C.; Santander, Mariano) Central extensions of the families of quasi-unitary Lie algebras. (English summary) **99i:17007**
— *see also* **de Azcárraga, J. A.; et al., 99d:17004**
Jiang, Cui Po (*with* Meng, Dao Ji) The structure of Lie algebras where nilpotent radicals are Heisenberg algebras, and their construction. (Chinese)
— (*with* Meng, Dao Ji) The structures of some complete Lie algebras. (Chinese. English and Chinese summaries) **99k:17009**
Kac, Victor G. Classification of infinite-dimensional simple linearly compact Lie superalgebras. **99m:17006**
Khakimdjanova, Kamola Lie algebras with a given lattice of ideals. (English summary) **99m:17007**
Kostant, Bertram The set of abelian ideals of a Borel subalgebra, Cartan decompositions, and discrete series representations. **99c:17010**
MacCallum, Malcolm A. H. On the classification of the real four-dimensional Lie algebras. (English summary) **99k:17010**
Mehl, Christian *see* **Ammar, Gregory S.; et al., 99k:17007**
Mehrmann, Volker *see* **Ammar, Gregory S.; et al., 99k:17007**
Meng, Dao Ji *see* **Jiang, Cui Po, 99k:17009**
Meshulam, Roy (*with* Radwan, Nizar) On linear subspaces of nilpotent elements in a Lie algebra. (English summary) **99d:17005**
Molev, A. I. Stirling partitions of the symmetric group and Laplace operators for the orthogonal Lie algebra. (English summary) **99k:17011**
Parashar, D. *see* **Pati, K. C., 99d:17006**
Pati, K. C. (*with* Parashar, D.) Satake superdiagrams, real forms and Iwasawa decomposition of classical Lie superalgebras. (English summary) **99d:17006**
Peng, Liangang Lie algebras determined by finite Auslander-Reiten quivers. **99d:17007**
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Phillips, Richard E. (*with* Wald, Jeanne) Locally solvable finitary Lie algebras. (English summary) **99j:17007**
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Zhu, Lin Sheng[1] The classification and realization of complete Lie algebras with commutative nilpotent radicals. (English summary) **99k:17012**

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Demisenov, B. N. (*with* Kukin, G. P.) On subalgebras of a Lie algebra with one defining relation. (Russian. Russian summary) **99a:17007**
Favre, G. (*with* Santharoubane, L.) Nilpotent Lie algebras of classical simple type. **99b:17006**
de Graaf, W. A. (*with* Ivanyos, Gábor; Küronya, A.; Rónyai, Lajos) Computing Levi decompositions in Lie algebras. (English summary) **99a:17001**
Ivanyos, Gábor *see* **de Graaf, W. A.; et al., 99a:17001**
Kukin, G. P. *see* **Demisenov, B. N., 99a:17007**
Küronya, A. *see* **de Graaf, W. A.; et al., 99a:17001**
Rónyai, Lajos *see* **de Graaf, W. A.; et al., 99a:17001**
Santharoubane, L. *see* **Favre, G., 99b:17006**
Vaishampayan, Sarita Group invariant solutions and optimal system of two-dimensional wave equation. (English summary) **99j:35123**
Wilson, Mark Curtis Bell's primeness criterion and the simple Lie superalgebras. (English summary) **99k:17020**

17B10 Representations, algebraic theory (weights)

Akin, Kaan (*with* Weyman, Jerzy) Minimal free resolutions of determinantal ideals and irreducible representations of the Lie superalgebra $\mathrm{gl}(m|n)$. **99c:17011**
Arakawa, Tomoyuki (*with* Suzuki, Takeshi) Duality between $\mathrm{sl}_n(\mathbf{C})$ and the degenerate affine Hecke algebra. (English summary) **99h:17005**
Benkart, Georgia (*with* Lee Shader, Chanyoung; Ram, Arun) Tensor product representations for orthosymplectic Lie superalgebras. (English summary) **99k:17013**
Boyallian, Carina (*with* Kac, Victor G.; Liberati, José I.; Yan, Catherine Huafei) Quasifinite highest weight modules over the Lie algebra of matrix differential operators on the circle. (English summary) **99c:17012**
Britten, D. J. (*with* Lemire, F. W.) The torsion free Pieri formula. (English summary) **99f:17005**
— (*with* Lemire, F. W.) On modules of bounded multiplicities for the symplectic algebras. (English summary) **99m:17008**
Buchwalter, S. A. (*with* Moylan, Patrick Joseph) Representations of the Poincaré Lie algebra from unitary representations of $\mathrm{SO}(1, 4)$. (English summary) **99d:17008**
Burde, Dietrich On a refinement of Ado's theorem. (English summary) **99b:17005**
Dehy, Raika Combinatorial results on Demazure modules. **99g:17014**
Dimitrov, Ivan Kolev (*with* Penkov, Ivan) Partially and fully integrable modules over Lie superalgebras. (English summary) **99a:17009**
Dobrev, Vladimir K. New generalized Verma modules and multilinear intertwining differential operators. (English summary) **99c:17013**
El Gradechi, Amine M. On the super-unitarity of discrete series representations of orthosymplectic Lie superalgebras. (English summary) **99g:17015**
Farnsteiner, Rolf On the distribution of AR-components of restricted Lie algebras. (English summary) **99m:17009**
Felder, Giovanni (*with* Varchenko, A. N.) Three formulae for eigenfunctions of integrable Schrödinger operators. (English summary) **99a:17010**
Feldvoss, Jörg Chief factors and the principal block of a restricted Lie algebra. **99h:17006**
— (*with* Nakano, Daniel K.) Representation theory of the Witt algebra. **99d:17009**
Folly, Y. Sur la rigidité des représentations de sl(2). (Italian summary) [On the rigidity of representations of sl(2)] **99k:17014**
Futorny, V. M. ★ Representations of affine Lie algebras. **99f:17006**
— (*with* Mazorchuk, Vladimir) BGG-resolution for α-stratified modules over simply-laced finite-dimensional Lie algebras. **99g:17016**
Germoni, Jérôme Indecomposable representations of special linear Lie superalgebras. (English summary) **99k:17015**
Gorelik, Maria (*with* Lanzmann, Emmanuel) The annihilation theorem for the Lie superalgebra $\mathrm{osp}(1, 2l)$. (English and French summaries) **99h:17007**
Gross, Benedict H. (*with* Kostant, Bertram; Ramond, Pierre; Sternberg, Shlomo) The Weyl character formula, the half-spin representations, and equal rank subgroups. (English summary) **99f:17007**
Grozman, P. (*with* Leites, D.) The highest weight representations of the contact Lie superalgebra on 1|6-dimensional supercircle. (English summary) **99e:17006**
Gyoja, Akihiko (*with* Yamashita, Hiroshi[1]) Associated variety, Kostant-Sekiguchi correspondence, and locally free $U(\mathfrak{n})$-action on Harish-Chandra modules. **99e:17007**
Holmes, Randall R. Simple restricted modules for the restricted Hamiltonian algebra. (English summary) **99a:17011**
Kabanov, Alexandre I. Stability of Schur functors. (English summary) **99c:17014**
Kac, Victor G. *see* **Boyallian, Carina; et al., 99c:17012**
Kang, Seok-Jin (*with* Kim, Myung-Hwan[1]) Borcherds superalgebras and a monstrous Lie superalgebra. **99g:17017**
Khomenko, O. M. (*with* Mazorchuk, Vladimir) Generalized Verma modules over the Lie algebra of type G_2. (English summary) **99m:17010**
Kim, Myung-Hwan[1] *see* **Kang, Seok-Jin, 99g:17017**
Komrakov, B. P. (*with* Tchuryumov, Alexei) Micromodules. (English summary) **99e:17008**
Kostant, Bertram *see* **Gross, Benedict H.; et al., 99f:17007**
Kuniba, Atsuo (*with* Misra, Kailash C.; Okado, Masato; Takagi, Taichiro; Uchiyama, Jun) Crystals for Demazure modules of classical affine Lie algebras. (English summary) **99h:17008**
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Liberati, José I. *see* **Boyallian, Carina; et al., 99c:17012**
Lin, Zongzhu (*with* Nakano, Daniel K.) Good filtrations for representations of Lie algebras of Cartan type. (English summary) **99j:17008**
Littelmann, Peter Cones, crystals, and patterns. (English summary) **99e:17009**
Liu, Bin[6] Irreducible graded point representations of Cartan type Lie algebras. (Chinese. English and Chinese summaries) **99d:17010**
Mazorchuk, Vladimir Tableaux realization of generalized Verma modules. (English summary) **99g:17018**
— *see also* **Futorny, V. M., 99g:17016** *and* **Khomenko, O. M., 99m:17010**
Miličić, Dragan (*with* Soergel, Wolfgang) The composition series of modules induced from Whittaker modules. (English summary) **99e:17010**
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Moon, Dongho The centralizer algebra of the Lie superalgebra $\mathfrak{p}(n)$ and the decomposition of $V^{\otimes k}$ as a $\mathfrak{p}(n)$-module. (English summary) **99j:17009**
Moylan, Patrick Joseph *see* **Buchwalter, S. A., 99d:17008**
Nakano, Daniel K. Representation theory of Lie algebras of Cartan type. **99h:17009**
— *see also* **Feldvoss, Jörg, 99d:17009** *and* **Lin, Zongzhu, 99j:17008**
Okado, Masato *see* **Kuniba, Atsuo; et al., 99h:17008**
Penkov, Ivan Characters of strongly generic irreducible Lie superalgebra representations. (English summary) **99d:17011**
— (*with* Serganova, V. V.) The support of an irreducible Lie algebra representation. (English summary) **99i:17008**
— *see also* **Dimitrov, Ivan Kolev, 99a:17009**
Raghavan, K. N. (*with* Sankaran, Parameswaran) A new approach to standard monomial theory for classical groups. (English summary) **99d:17012**
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Santos, José Carlos de Sousa Oliveira Foncteurs de Zuckerman pour les superalgèbres de

Lie. (English summary) [Zuckerman functors for Lie superalgebras] **99m:17011**
Serganova, V. V. Characters of irreducible representations of simple Lie superalgebras. **99j:17010**
— *see also* **Penkov, Ivan**, **99i:17008**
Shen, Guangyu (*with* Shu, Bin) Algebraic groups associated with graded Lie algebras of Cartan type. (English summary) **99k:17016**
Shtepin, V. V. Intermediate orthogonal Lie algebra $\mathfrak{b}_{n-1/2}$ and its finite-dimensional representations. (Russian. Russian summary) **99h:17010**
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Soergel, Wolfgang Combinatorics of Harish-Chandra modules. (English summary) **99k:17017**
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Sternberg, Shlomo *see* **Gross, Benedict H.; et al.**, **99f:17007**
Stoyanovskiĭ, A. V. Deformations of Lie algebras, and character formulas. (Russian) **99f:17008**
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Vasilache, T. On the global nonsingularity of algebraic representations of gradient systems in finite-dimensional Lie algebras. (English and Romanian summaries)
Weyman, Jerzy *see* **Akin, Kaan**, **99c:17011**
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Adamović, Dražen Vertex operator algebras and irreducibility of certain modules for affine Lie algebras. (English summary) **99f:17031**
Ágoston, István (*with* Dlab, Vlastimil; Lukács, Erzsébet) Well-filtered algebras. (English summary) **99k:16020**
Akasaka, Tatsuya (*with* Kashiwara, Masaki) Finite-dimensional representations of quantum affine algebras. (English summary) **99d:17017**
Arnal, Didier (*with* Benamor, Hédi; Cahen, Benjamin) Minimal realizations of classical simple Lie algebras through deformations. (English and French summaries) **99m:17012**
Arnaudon, Daniel Representations of $\mathcal{U}_q(\mathrm{sl}(3))$ at roots of 1 (in the restricted specialisation). (English summary) **99e:17017**
Bärwald, Oliver (*with* Gebert, Reinhold W.; Nicolai, Hermann) On the imaginary simple roots of the Borcherds algebra $\mathfrak{g}_{\mathrm{III}_{9,1}}$. (English summary) **99b:17030**
Benamor, Hédi *see* **Arnal, Didier; et al.**, **99m:17012**
Benkart, Georgia (*with* Gregory, Thomas; Kuznetsov, M. I.) On graded Lie algebras of characteristic three with classical reductive null component. (English summary) **99i:17033**
— Down-up algebras and Witten's deformations of the universal enveloping algebra of sl_2. **99m:17014**
Bhagavan, V. Srinivasa *see* **Khanna, I. K.**, **99g:33025**
Boasso, Enrico On the joint spectra of the two-dimensional Lie algebra of operators in Hilbert spaces. (English summary) **99e:47010**
Bonechi, F. (*with* Giachetti, Riccardo; Sorace, E.; Tarlini, M.) Induced representations of the one-dimensional quantum Galilei group. (English summary) **99c:17023**
Borel, Armand Full reducibility and invariants for $\mathrm{SL}_2(\mathbf{C})$. **99h:20001**
Bremner, Murray Lie invariants of degree ten. (English summary) **99h:17004**
Brihaye, Yves (*with* Kosiński, Piotr) Quasi-exactly solvable matrix models in $\mathrm{sl}(n)$. (English summary) **99h:81062**
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Cliff, Gerald Crystal bases and Young tableaux. **99k:17025**
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Eyre, Timothy M. W. ★ Quantum stochastic calculus and representations of Lie superalgebras. **99i:81122**
Feldvoss, Jörg (*with* Klingler, Lee) Tensor powers and projective modules for Hopf algebras. **99h:16058**
Foda, Omar (*with* Misra, Kailash C.; Okado, Masato) Demazure modules and vertex models: the $\widehat{\mathrm{sl}}(2)$ case. (English summary) **99e:17036**
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Frenkel, Igor B. (*with* Khovanov, Mikhail G.) Canonical bases in tensor products and graphical calculus for $U_q(\mathrm{sl}_2)$. **99a:17019**
— (*with* Kirillov, Alexander A., Jr.; Varchenko, A. N.) Canonical basis and homology of local systems. (English summary) **99j:17019**
Futornyĭ, V. M. (*with* Grishkov, A. N.; Melville, Duncan J.) Quantum imaginary Verma modules for affine Lie algebras. (English and French summaries) **99k:17029**
Gebert, Reinhold W. *see* **Bärwald, Oliver; et al.**, **99b:17030**
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Goodman, Roe (*with* Wallach, Nolan R.) ★ Representations and invariants of the classical groups. (English summary) **99b:20073**
Green, R. M. (*with* Marsh, Robert) Quantized symmetric powers. **99k:17030**
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Hanna, L. A-M. On the matrix representation of Lie algebras for quantized Hamiltonians and their central extensions. (Italian summary) **99h:81065**
Hawkins, Thomas From general relativity to group representations: the background to Weyl's papers of 1925–26. (English and French summaries) **99i:01026**
Hwang, Stephen The semi-infinite cohomology of affine Lie algebras. (English summary) **99e:17033**
Kamita, Atsushi (*with* Morita, Yoshiyuki; Tanisaki, Toshiyuki) Quantum deformations of certain prehomogeneous vector spaces. I. (English summary) **99i:17019**
Karpov, B. V. Algebro-geometric aspects of S-duality. (Russian. Russian summary) **99g:14012**
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— (*with* Nakano, Daniel K.) Representation theory of the Witt algebra. **99d:17009**
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Shu, Bin On the cohomology of generalized restricted Lie algebras. (English summary) **99k:17040**
Zhu, Ying Hao The reduced enveloping algebras of Lie p-superalgebras. (Chinese. English and Chinese summaries) **99e:17016**

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Barnich, Glenn (*with* Fulp, R.; Lada, Tom; Stasheff, James D.) The sh Lie structure of Poisson brackets in field theory. (English summary) **99j:17030**
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Futornyĭ, V. M. (*with* Mazorchuk, Vladimir) BGG-resolution for α-stratified modules over simply-laced finite-dimensional Lie algebras. **99g:17016**
Kim, Yangkon (*with* So, K. H.; Seo, G. S.; Park, D. Y.; Choi, Seul Hee) Some remarks on four kinds of points associated to Lie algebras. (English summary) **99m:17025**
Lin, Zongzhu (*with* Nakano, Daniel K.) Good filtrations for representations of Lie algebras of Cartan type. (English summary) **99j:17008**
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Nakano, Daniel K. Varieties for $G_r T$-modules. (English summary) **99k:20089**
— *see also* **Lin, Zongzhu, 99j:17008**
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— (*with* Macfarlane, A. J.; Mountain, Arthur J.; Pérez Bueno, J. C.) Invariant tensors for simple groups. (English summary) **99e:17011**
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Cartan, Henri Les travaux de Koszul. II. [The works of Koszul. II] (*see* **99f:00033**)
Đoković, Dragomir Ž. (*with* Zhao, Kaiming) Some infinite-dimensional simple Lie algebras in characteristic 0 related to those of Block. (English summary) **99b:17027**
Giunashvili, Z. Several cohomology algebras connected with the Poisson structure. (English summary) **99k:58200**
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17B60 Lie rings associated with other structures (associative, Jordan, etc.) [see also 15A30, 16W10, 17C40, 17C50]

Bai, Cheng Ming (*with* Meng, Dao Ji) The structure of bisymmetric algebras and their adjoint Lie algebras. (Chinese. Chinese summary)
Catino, F. On a theorem of Gupta and Levin. **99b:17026**
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Bai, Cheng Ming (*with* Meng, Dao Ji) On bi-symmetric algebras. (English summary) **99k:17001**
Baues, Oliver Left-symmetric algebras for $\mathfrak{gl}(n)$. (English summary) **99j:17004**
Ermolaev, Yu. B. Universal Cartan extension. (Russian) **99c:17005**
Farkas, Daniel R. (*with* Letzter, Gail) Ring theory from symplectic geometry. (English summary) **99f:16026**
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Gupta, Chander Kanta (*with* Umirbaev, U. U.) Systems of linear equations over associative algebras and the occurrence problem for Lie algebras. (English summary) **99m:16039**
Kamiya, Noriaki On isotopies of algebras and triple systems. (English summary) **99j:17006**
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Mann, Avinoam (*with* Martínez López, Consuelo) Groups nearly of prime exponent and nearly Engel Lie algebras. (English summary) **99f:20029**
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Baranov, Aleksandr A. Diagonal locally finite Lie algebras and a version of Ado's theorem. **99f:17026**
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Chen, Liang[5] Polynomial Lie subalgebras of the infinite matrix Lie algebra. (English summary) **99c:17036**
Đoković, Dragomir Ž. (*with* Zhao, Kaiming) Some infinite-dimensional simple Lie algebras in characteristic 0 related to those of Block. (English summary) **99b:17027**
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Gerdt, Vladimir P. (*with* Kornyak, Vladimir V.) An algorithm for analysis of the structure of finitely presented Lie algebras. (English summary) **99e:17003**
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Jiang, Cui Po (*with* Meng, Dao Ji) The automorphism group of the derivation algebra of the Virasoro-like algebra. (English and Chinese summaries) **99g:17039**
Kac, Victor G. ★ Vertex algebras for beginners. (English summary) **99a:17027**
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van de Leur, J. W. The $[n_1, n_2, \cdots, n_s]$th reduced KP hierarchy and $W_{1+\infty}$ constraints. (English and Russian summaries) **99b:58116**
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Hauser, Herwig (*with* Müller, Gerd) The Lie algebra of polynomial vector fields and the Jacobian conjecture. (English summary) **99g:17045**
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Cheng, Shun-Jen (*with* Kac, Victor G.) Erratum: "Conformal modules" [Asian J. Math. **1** (1997), no. 1, 181–193; MR 98j:17026]. **99k:17046**
Dimitrov, Ivan Kolev (*with* Penkov, Ivan) Partially and fully integrable modules over Lie superalgebras. (English summary) **99a:17009**
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Élkin, V. I. (*with* Ivashko, D. G.) Admissible Lie algebras for some types of affine control systems. (Russian. Russian summary) **99b:93008**
Gosselin, Pierre (*with* Wurzbacher, Tilmann) A stochastic approach to the Virasoro anomaly in quantization of strings in flat space. (English summary) **99h:81198**
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Huebschmann, Johannes Lie-Rinehart algebras, Gerstenhaber algebras and Batalin-Vilkovisky algebras. **99b:17021**
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Cellini, Paola (*with* Papi, Paolo) The structure of total reflection orders in affine root systems. (English summary) **99g:17047**
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17Cxx Jordan algebras (algebras, triples and pairs)

17C05 Identities and free Jordan structures

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17C40 Exceptional Jordan structures

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— (*with* Merrachi, Najia) Algèbres de Jordan Banach vérifiant $\|x\|\,\|x^{-1}\| = 1$. [Jordan-Banach algebras satisfying $\|x\|\,\|x^{-1}\| = 1$] **99h:46094**
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17D20 (γ, δ)-rings, including $(1, -1)$-rings

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— (*with* González, Santos; Martínez López, Consuelo; Iltyakov, A. V.) Polynomial identities of Bernstein algebras of small dimension. (English summary) **99g:17056**
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Koulibaly, Akry *see* **Pilabré, N. Boukary, 99e:17044**
Lyubich, Yu. I. The ultranormal case of the Bernstein problem. (Russian) **99h:92015**
Pilabré, N. Boukary (*with* Koulibaly, Akry) Sur la dupliquée Lie admissible d'une algèbre. (English and French summaries) [On the Lie-admissible duplicate of an algebra] **99e:17044**
Yan, Ying Ji The algebraic structure of biological heredity. (Chinese. English and Chinese summaries) **99d:92017**

17D99 None of the above, but in this section

Items with secondary classifications in 17D99

Mohamed, Mashhour Ibrahim A note on BOL algebra operators. (English summary) **99b:20104**

18–XX Category theory, homological algebra

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bergman, George M. ★ An invitation to general algebra and universal constructions. **99h:18001**
Lawvere, F. William (*with* Schanuel, Stephen H.) ★ Conceptual mathematics. (English summary) **99e:18001**
Schanuel, Stephen H. *see* **Lawvere, F. William**, **99e:18001**

18–04 Explicit machine computation and programs (not the theory of computation or programming)

Kaczyński, Tomasz (*with* Mrozek, Marian; Ślusarek, M.) Homology computation by reduction of chain complexes. (English summary) **99a:18001**
Mrozek, Marian *see* **Kaczyński, Tomasz; et al.**, **99a:18001**
Ślusarek, M. *see* **Kaczyński, Tomasz; et al.**, **99a:18001**

18–06 Proceedings, conferences, collections, etc.

(Getzler, Ezra) *see* **Higher category theory**, **99h:18002**
(Kapranov, Mikhail) *see* **Higher category theory**, **99h:18002**

Items listed otherwise than by author

Contemporary Mathematics ★ Higher category theory. **99h:18002**
Evanston, IL ★ Higher category theory. **99h:18002**
Higher category theory ★ Higher category theory. **99h:18002**
Workshop:
Higher Category Theory and Physics ★ Higher category theory. **99h:18002**

Items with secondary classifications in 18–06

(Jacobs, Bart) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Lowen, Robert) *see* **Categorical methods and techniques in fuzzy mathematics**, **99m:03114**
(McCleary, John) *see* **Higher homotopy structures in topology and mathematical physics**, **99g:00041**
(Moss, Lawrence S.) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Reichel, Horst) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Rutten, Jan) *see* **Workshop: Coalgebraic Methods in Computer Science**, **99e:68002**
(Stasheff, James D.) *see* **Higher homotopy structures in topology and mathematical physics**, **99g:00041**

Items listed otherwise than by author

Birthday:
Stasheff, James Dillon ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Categorical methods and techniques in fuzzy mathematics ★ Categorical methods and techniques in fuzzy mathematics. **99m:03114**
Conference:
Higher Homotopy Structures in Topology and Mathematical Physics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Contemporary Mathematics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Higher homotopy structures in topology and mathematical physics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Lisbon ★ First Workshop on Coalgebraic Methods in Computer Science (CMCS '98). **99e:68002**
Poughkeepsie, NY ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Special Issue:
Categorical methods and techniques in fuzzy mathematics ★ Categorical methods and techniques in fuzzy mathematics. **99m:03114**
Workshop:
Coalgebraic Methods in Computer Science ★ First Workshop on Coalgebraic Methods in Computer Science (CMCS '98). **99e:68002**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Došen, Kosta Deductive systems and categories. (English summary) **99j:18001**
Sousa, Lurdes Note on multisolid categories. (English summary) **99k:18001**

Items with secondary classifications in 18A05

Crans, Sjoerd E. A tensor product for **Gray**-categories. (English summary) **99m:18006**

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

Items with secondary classifications in 18A10

Došen, Kosta Deductive systems and categories. (English summary) **99j:18001**
Riguet, Jacques Deducibility and exactness. (English summary) **99k:08001**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Items with secondary classifications in 18A15

Čubrić, Djordje Embedding of a free Cartesian-closed category into the category of sets. (English summary) **99d:18004**
— (*with* Dybjer, Peter; Scott, Philip) Normalization and the Yoneda embedding. (English summary) **99d:03012**
Dybjer, Peter *see* **Čubrić, Djordje; et al.**, **99d:03012**
Labella, Anna Categories and logic. (Italian) (*see* **99a:00007**)
Marmolejo, F. Continuous families of coalgebras. (English summary) **99f:18015**
Scott, Philip *see* **Čubrić, Djordje; et al.**, **99d:03012**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Abels, Herbert A projection property for buildings. (English summary) **99j:18002**
Castellini, G. Connectedness, disconnectedness and closure operators: further results. (English summary) **99i:18001**
— Connectedness and disconnectedness: a different perspective. (English summary) **99h:18003**
Dalalyan, S. G. Normalizations of a monomorphism in general categories. (Russian. Armenian summary) **99f:18001**
— Categories of binars and related representations. (Russian. English and Russian summaries) **99f:18002**
Hébert, Michel On generation and implicit partial operations in locally presentable categories. (English summary) **99i:18002**
Holgate, David Linking the closure and orthogonality properties of perfect morphisms in a category. (English summary) **99i:18003**

Items with secondary classifications in 18A20

Feit, Paul Structure theory for pro-objects from an arbitrary category. (English summary) **99k:18003**
Kemper, Ralf Epimorphisms of separated superconvex spaces. (English summary) **99b:46114**
Koubek, V. (*with* Sichler, J.) On full and faithful Kan extensions. (English summary) **99i:18004**
Pestov, Vladimir G. Epimorphisms of Hausdorff groups by way of topological dynamics. (English summary) **99a:22007**
Sichler, J. *see* **Koubek, V.**, **99i:18004**

18A22 Special properties of functors (faithful, full, etc.)

Castaño Iglesias, Florencio (*with* Gómez Torrecillas, José; Năstăsescu, C.) Separable functors in graded rings. (English summary) **99b:18001**
Gómez Torrecillas, José *see* **Castaño Iglesias, Florencio; et al.**, **99b:18001**
Năstăsescu, C. *see* **Castaño Iglesias, Florencio; et al.**, **99b:18001**

Items with secondary classifications in 18A22

Burton, M. H. (*with* Muraleetharan, M.; Gutiérrez García, J.) Generalised filters. I. (English summary)
Gutiérrez García, J. *see* **Burton, M. H.; et al.**
Koubek, V. (*with* Sichler, J.) On full and faithful Kan extensions. (English summary) **99i:18004**
Mantovani, Sandra Semilocalizations of exact and lextensive categories. (French summary) **99b:18006**
Muraleetharan, M. *see* **Burton, M. H.; et al.**
Sichler, J. *see* **Koubek, V.**, **99i:18004**
Sousa, Lurdes Note on multisolid categories. (English summary) **99k:18001**
Wagner, David G. The algebra of flows in graphs. (English summary) **99h:05049**

18A23 Natural morphisms, dinatural morphisms

Paré, Robert (*with* Román, Leopoldo) Dinatural numbers. (English summary) **99f:18003**
Román, Leopoldo *see* **Paré, Robert**, **99f:18003**

18A25 Functor categories, comma categories

Wendt, Michael A. Change of base for measure spaces. (English summary) **99f:18004**
Zangurashvili, D. Factorization systems and adjunctions. (English summary) **99j:18003**

Items with secondary classifications in 18A25

Khusainov, A. A. Comparison of the dimensions of a small category. (Russian. Russian summary) **99b:18002**
Vogel, Hans-Jürgen On functors between dhtV-symmetric categories. (English summary) **99k:18012**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Berndt, Olaf A categorical definition of semidirect products. (English summary) **99h:18004**
Ehresmann, Andrée C. Colimits in free categories. (French summary) **99k:18002**
He, Wei[1] (*with* Liu, Ying Ming) Steenrod's theorem for locales. (English summary) **99c:18001**
Khusainov, A. A. Comparison of the dimensions of a small category. (Russian. Russian summary) **99b:18002**
Liu, Ying Ming *see* **He, Wei[1]**, **99c:18001**
Soultan, N. A. *see* **Verschoren, Alain**, **99m:18001**
Verschoren, Alain (*with* Soultan, N. A.) Inductive limits of multispectra. (English summary) **99m:18001**

Zhao, Bin[1] *see* **Zhao, Dong Sheng**
Zhao, Dong Sheng (*with* Zhao, Bin[1]) A generalization of Lawson-Hoffmann duality. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18A30

Ageron, P. Limites projectives conditionnelles dans les catégories accessibles. (English, French and German summaries) [Conditional projective limits in accessible categories] **99m:18004**
Bautista, Serafín (*with* Varela, Januario) On the co-completeness of the category of Hausdorff uniform spaces. (English summary) **99i:18007**
Marmolejo, F. Continuous families of coalgebras. (English summary) **99f:18015**
Varela, Januario *see* **Bautista, Serafín, 99i:18007**
Zhao, Bin[1] Limits in the category of molecular lattices. (Chinese. English and Chinese summaries)

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

Lord, Harriet Connectednesses and disconnectednesses. II. (English summary) **99d:18001**

Items with secondary classifications in 18A32

Alderton, I. W. α-compactness of fuzzy topological spaces: a categorical approach. (English summary) **99g:54002**
Bargenda, Hubertus W. Algebraic hulls of adjoint functors as injective hulls. (English summary) **99b:18005**
Bunge, Marta C. (*with* Funk, Jonathon) Spreads and the symmetric topos. II. (English summary) **99k:18006a**
— (*with* Funk, Jonathon) Erratum to: "Spreads and the symmetric topos. II". **99k:18006b**
Carboni, A. (*with* Vitale, Enrico M.) Regular and exact completions. (English summary) **99b:18003**
Castellini, G. Connectedness, disconnectedness and closure operators: further results. (English summary) **99i:18001**
— Connectedness and disconnectedness: a different perspective. (English summary) **99h:18003**
Clementino, Maria Manuel (*with* Tholen, Walter) Separated and connected maps. (English summary) **99h:18005**
Funk, Jonathon *see* **Bunge, Marta C., 99k:18006a** *and* **99k:18006b**
Khusainov, A. A. Comparison of the dimensions of a small category. (Russian. Russian summary) **99b:18002**
Loday, Jean-Louis (*with* Pirashvili, Teimuraz) The tensor category of linear maps and Leibniz algebras. (English summary) **99e:18009**
Pirashvili, Teimuraz *see* **Loday, Jean-Louis, 99e:18009**
Tholen, Walter *see* **Clementino, Maria Manuel, 99h:18005**
Vitale, Enrico M. *see* **Carboni, A., 99b:18003**

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Carboni, A. (*with* Vitale, Enrico M.) Regular and exact completions. (English summary) **99b:18003**
Feit, Paul Structure theory for pro-objects from an arbitrary category. (English summary) **99k:18003**
Lack, Stephen A note on the exact completion of a regular category, and its infinitary generalizations. (English summary) **99j:18004**
Rowan, William H. The category of directed systems in a category. (English summary) **99b:18004**
Vitale, Enrico M. *see* **Carboni, A., 99b:18003**

Items with secondary classifications in 18A35

Gran, M. (*with* Vitale, Enrico M.) On the exact completion of the homotopy category. (French summary) **99i:18006**
Krause, Henning Functors on locally finitely presented additive categories. **99d:18009**
Lair, C. Sur le genre d'esquissabilité des catégories modelables (accessibles) possédant un objet terminal. [Sketchability type of modelizable (accessible) categories that have a terminal object] **99a:18002a**
— Sur le genre d'esquissabilité des catégories modelables (accessibles) possédant les produits de deux. [Sketchability type of modelizable (accessible) categories that have binary products] **99a:18002b**
— Sur les genres d'esquissabilité des catégories modelables (accessibles) possédant les limites d'indexations finies [resp. finies et non vides, finies et connexes, finies et connexes et non vides]. [Sketchability types of modelizable (accessible) categories that have finite [resp., finite and nonempty, finite and connected, finite, connected and nonempty] index limits] **99a:18002c**
Vitale, Enrico M. *see* **Gran, M., 99i:18006**
Zangurashvili, D. Factorization systems and adjunctions. (English summary) **99j:18003**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Acosta G., Lorenzo (*with* Lozano, Epifanio) An adjunction between binary relations and topological spaces. (Spanish. English and Spanish summaries) **99f:18005**
Ardila de la Peña, Victor Manuel (*with* Julio-Arrieta, Carlos A.; Duque Hoyos, Álvaro; Luna Torres, Joaquín; Restrepo, Mauricio) Sieves and adjunction. (Spanish. English and Spanish summaries) **99g:18001**
Bargenda, Hubertus W. Algebraic hulls of adjoint functors as injective hulls. (English summary) **99b:18005**
Duque Hoyos, Álvaro *see* **Ardila de la Peña, Victor Manuel; et al., 99g:18001**
Hager, Anthony W. (*with* Martinez, Jorge[2]) Pushout-invariant extensions and monoreflections. (English summary) **99e:18002**
Julio-Arrieta, Carlos A. *see* **Ardila de la Peña, Victor Manuel; et al., 99g:18001**
Lipkovski, Aleksandar T. The direct and the inverse image—a categorical viewpoint. (English summary) **99f:18006**
Lozano, Epifanio *see* **Acosta G., Lorenzo, 99f:18005**
Luna Torres, Joaquín *see* **Ardila de la Peña, Victor Manuel; et al., 99g:18001**
Mantovani, Sandra Semilocalizations of exact and lextensive categories. (French summary) **99b:18006**
Martinez, Jorge[2] *see* **Hager, Anthony W., 99e:18002**
Omiadze, Z. II-categories. Adjunction and equivalence. (English summary)
Restrepo, Mauricio *see* **Ardila de la Peña, Victor Manuel; et al., 99g:18001**

Items with secondary classifications in 18A40

Bucalo, Anna (*with* Rosolini, Giuseppe) Repleteness and the associated sheaf. (English summary) **99k:18005**
Chen, Ji Xiang Some pairs of adjoint functors involving track homotopy categories. (Chinese. English and Chinese summaries)
Kashu, A. I. ★ Функторы и кручения в категориях модулей. (Russian. English and Russian summaries) [Functors and torsions in categories of modules] **99j:16020**
Kou, Hui The reflective and coreflective subcategories of the category of complete semilattices. (Chinese. English and Chinese summaries) **99h:18006**
Koubek, V. (*with* Sichler, J.) On full and faithful Kan extensions. (English summary) **99i:18004**
Lack, Stephen A note on the exact completion of a regular category, and its infinitary generalizations. (English summary) **99j:18004**
Rosolini, Giuseppe *see* **Bucalo, Anna, 99k:18005**
Sichler, J. *see* **Koubek, V., 99i:18004**
Sousa, Lurdes Note on multisolid categories. (English summary) **99k:18001**
Watanabe, Hiroshi[6] A criterion for the existence of subobject classifiers. (English summary) **99m:18003**

18A99 None of the above, but in this section

Liu, Xiao Ji The sharp ordering of the set of morphisms in a category. (Chinese. English and Chinese summaries)
Moore, David Jeffrey Closure categories. (English summary) **99b:18007**
Rey, Jean-François The block product of categories and Tilson's division. (English summary) **99d:18002**
— The kernel of a relational morphism of categories. (English summary) **99d:18003**

Items with secondary classifications in 18A99

Börger, Reinhard Non-existence of a cogenerator for ordered vector spaces. **99m:06035**
Manes, Ernie G. Implementing collection classes with monads. (English summary) **99j:68007**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Ageron, P. Catégories accessibles à produits fibrés. (English, French and German summaries) [Accessible categories with pullbacks] **99k:18004**

Items with secondary classifications in 18B05

Johnstone, Peter (*with* Power, Anthony John; Tsujishita, Toru; Watanabe, Hiroshi[6]; Worrell, James) An axiomatics for categories of transition systems as coalgebras. (English summary) (*see* **99h:68008**)
Power, Anthony John *see* **Johnstone, Peter; et al., (99h:68008)**
Tsujishita, Toru *see* **Johnstone, Peter; et al., (99h:68008)**
Watanabe, Hiroshi[6] *see* **Johnstone, Peter; et al., (99h:68008)**
Worrell, James *see* **Johnstone, Peter; et al., (99h:68008)**

18B10 Category of relations, additive relations

Items with secondary classifications in 18B10

Carboni, A. (*with* Kelly, G. M.; Verity, D.; Wood, R. J.) A 2-categorical approach to change of base and geometric morphisms. II. (English summary) **99e:18007**
Kelly, G. M. *see* **Carboni, A.; et al., 99e:18007**
Verity, D. *see* **Carboni, A.; et al., 99e:18007**
Wood, R. J. *see* **Carboni, A.; et al., 99e:18007**

18B15 Embedding theorems, universal categories [see also 18E20]

Čubrić, Djordje Embedding of a free Cartesian-closed category into the category of sets. (English summary) **99d:18004**
Koubek, V. (*with* Sichler, J.) On full and faithful Kan extensions. (English summary) **99i:18004**
Sichler, J. *see* **Koubek, V., 99i:18004**

Items with secondary classifications in 18B15

Herrlich, Horst (*with* Zhang, Dexue) Categorical properties of probabilistic convergence spaces. (English summary) **99i:54007**
Koubek, V. (*with* Sichler, J.) Equimorphy in varieties of distributive double p-algebras. (English summary) **99g:06014**
Krause, Henning Functors on locally finitely presented additive categories. **99d:18009**

Nüßler, K. J. Universality and powerdomains. (English summary) **99a:06013**
Rowan, William H. The category of directed systems in a category. (English summary) **99b:18004**
Sichler, J. *see* **Koubek, V., 99g:06014**
Zhang, Dexue *see* **Herrlich, Horst, 99i:54007**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Items with secondary classifications in 18B20

Arzi-Gonczarowski, Z. (*with* Lehmann, Daniel J.) Introducing the mathematical category of artificial perceptions. (English summary) **99m:68199**
Kuske, Dietrich (*with* Shortt, Rae Michael) Topology for computations of concurrent automata. (English summary) **99g:68066**
Lehmann, Daniel J. *see* **Arzi-Gonczarowski, Z., 99m:68199**
Shortt, Rae Michael *see* **Kuske, Dietrich, 99g:68066**

18B25 Topoi [see also 03G30]

Bucalo, Anna (*with* Rosolini, Giuseppe) Repleteness and the associated sheaf. (English summary) **99k:18005**
Bunge, Marta C. (*with* Funk, Jonathon) Spreads and the symmetric topos. II. (English summary) **99k:18006a**
— (*with* Funk, Jonathon) Erratum to: "Spreads and the symmetric topos. II". **99k:18006b**
Butz, Carsten (*with* Moerdijk, Ieke) Representing topoi by topological groupoids. (English summary) **99i:18005**
Funk, Jonathon *see* **Bunge, Marta C., 99k:18006a** *and* **99k:18006b**
Gran, M. (*with* Vitale, Enrico M.) On the exact completion of the homotopy category. (French summary) **99i:18006**
Kasangian, Stefano (*with* Vigna, Sebastiano) The topos of labelled trees: a categorical semantics for SCCS. (English summary) **99f:18007**
Kim, Ig Sung On the axiom of choice in a well-pointed topos. (English summary)
Moerdijk, Ieke Classifying spaces for toposes with enough points. (English summary) **99m:18002**
— *see also* **Butz, Carsten, 99i:18005**
Rosolini, Giuseppe *see* **Bucalo, Anna, 99k:18005**
Vigna, Sebastiano *see* **Kasangian, Stefano, 99f:18007**
Vitale, Enrico M. *see* **Gran, M., 99i:18006**
Watanabe, Hiroshi[6] A criterion for the existence of subobject classifiers. (English summary) **99m:18003**
Worrell, James Toposes of coalgebras and hidden algebras. (English summary) **99k:18007**

Items with secondary classifications in 18B25

Ballard, David (*with* Boshuck, William) Definability and descent. **99f:03092**
Banaschewski, Bernhard ★ The real numbers in pointfree topology. **99c:54017**
Borceux, Francis (*with* Pedicchio, Maria Cristina) Left exact presheaves on a small pretopos. (English summary) **99j:18012**
Boshuck, William *see* **Ballard, David, 99f:03092**
Butz, Carsten (*with* Johnstone, Peter) Classifying toposes for first-order theories. (English summary) **99b:03081**
Carboni, A. (*with* Vitale, Enrico M.) Regular and exact completions. (English summary) **99b:18003**
Dubuc, Eduardo J. (*with* Zilber, Jorge C.) Banach spaces in an analytic model of synthetic differential geometry. (French summary) **99h:58003**
Gunji, Yukio-Pegio (*with* Ito, Keisuke; Kusunoki, Yoshiyuki) Formal model of internal measurement: alternate changing between recursive definition and domain equation. (English summary) **99b:03082**
Isham, Chris J. Topos theory and consistent histories: the internal logic of the set of all consistent sets. (English summary) **99a:81014**
Ito, Keisuke *see* **Gunji, Yukio-Pegio; et al., 99b:03082**
Johnstone, Peter *see* **Butz, Carsten, 99b:03081**
Kusunoki, Yoshiyuki *see* **Gunji, Yukio-Pegio; et al., 99b:03082**
Marmolejo, F. Continuous families of coalgebras. (English summary) **99f:18015**
Moerdijk, Ieke Sets, topoi and intuitionism. (English summary) **99k:03009**
Pedicchio, Maria Cristina *see* **Borceux, Francis, 99j:18012**
Schlesinger, Karl-Georg Toward quantum mathematics. I. From quantum set theory to universal quantum mechanics. (English summary) **99m:81020**
Vitale, Enrico M. *see* **Carboni, A., 99b:18003**
Zilber, Jorge C. *see* **Dubuc, Eduardo J., 99h:58003**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Baran, Mehmet Completely regular objects and normal objects in topological categories. (English summary) **99d:18005**
Bautista, Serafín (*with* Varela, Januario) On the co-completeness of the category of Hausdorff uniform spaces. (English summary) **99i:18007**
Cagliari, Francesca (*with* Mantovani, Sandra) The exponentiable morphisms in Kelley are the open maps. (English summary) **99b:18008**
— (*with* Mantovani, Sandra) Fibrewise smash product and fibrewise mapping spaces. (English summary) **99e:18003**
Clementino, Maria Manuel (*with* Tholen, Walter) Separated and connected maps. (English summary) **99h:18005**
Dikranjan, Dikran N. (*with* Pelant, Jan) Categories of topological spaces with sufficiently many sequentially closed spaces. (French summary) **99c:18002**
He, Wei[1] (*with* Luo, Mao-kang) Zero-dimensionality in the category of locales. (Chinese. English and Chinese summaries)
— (*with* Liu, Ying Ming) Inverse limits in the category of locales. (English summary) **99i:18008**
Liu, Ying Ming *see* **He, Wei[1], 99i:18008**
Lowen-Colebunders, Eva (*with* Verbeeck, C.) A unifying theory on exponential objects in the setting of Čech closures and distances. (*see* **99a:54002**)
Luo, Mao-kang *see* **He, Wei[1]**
Mantovani, Sandra *see* **Cagliari, Francesca, 99b:18008** *and* **99e:18003**
Pelant, Jan *see* **Dikranjan, Dikran N., 99c:18002**
Shakhmatov, Dmitrii B. A categorical version of the Lefschets-Nöbeling-Pontryagin theorem on embedding compacta in $\mathbf{R}^n$. (English summary) **99c:18003**
Tholen, Walter *see* **Clementino, Maria Manuel, 99h:18005**
Varela, Januario *see* **Bautista, Serafín, 99i:18007**
Verbeeck, C. *see* **Lowen-Colebunders, Eva, (99a:54002)**

Items with secondary classifications in 18B30

Alderton, I. W. α-compactness of fuzzy topological spaces: a categorical approach. (English summary) **99g:54002**
Amira, Haroun (*with* Coecke, Bob; Stubbe, Isar) How quantales emerge by introducing induction within the operational approach. (English summary) **99k:81028**
Bargenda, Hubertus W. Algebraic hulls of adjoint functors as injective hulls. (English summary) **99b:18005**
Činčura, Juraj Coreflections versus regular epimorphisms in categories of topological spaces. (English summary) **99k:18013**
Coecke, Bob *see* **Amira, Haroun; et al., 99k:81028**
He, Wei[1] The relation between sublocales and subspaces. (Chinese. English and Chinese summaries)
Herrlich, Horst (*with* Strecker, George E.) Categorical topology—its origins, as exemplified by the unfolding of the theory of topological reflections and coreflections before 1971. **99f:54003**
— Stabilität topologischer Eigenschaften unter kategoriellen Konstruktionen. [Stability of topological properties under categorical constructions] (*see* **99f:01003**)
— (*with* Zhang, Dexue) Categorical properties of probabilistic convergence spaces. (English summary) **99i:54007**
Höhle, Ulrich Categorical axioms of neighborhood systems. (English summary) **99e:54004**
Holgate, David Linking the closure and orthogonality properties of perfect morphisms in a category. (English summary) **99i:18003**
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18D20 Enriched categories (over closed or monoidal categories)

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18E10 Exact categories, abelian categories

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18E15 Grothendieck categories

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18E30 Derived categories, triangulated categories

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18F10 Grothendieck topologies [see also 14F20]

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18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

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18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]

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18Gxx Homological algebra [see also 13Dxx, 16Exx, 55Uxx]

18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

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18G10 Resolutions; derived functors [see also 18E25]

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18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

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18G20 Homological dimension [see also 13D05, 16E10]

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18G25 Relative homological algebra, projective classes

Christensen, J. Daniel Ideals in triangulated categories: phantoms, ghosts and skeleta. (English summary) **99g:18007**

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Beligiannis, Apostolos *see* **Assem, Ibrahim; et al.**, **99j:18011**
Carlson, Jon F. (*with* Peng, Chuang; Wheeler, Wayne W.) Transfer maps and virtual projectivity. (English summary) **99j:20005**
Fuchs, László[1] (*with* Salce, Luigi; Zanardo, Paolo) Note on the transitivity of pure essential extensions. **99m:13036**
Kassel, Christian (*with* Wambst, Marc) Algèbre homologique des N-complexes et homologie de Hochschild aux racines de l'unité. (English and French summaries) [Homology algebra of N-complexes and Hochschild homology at the roots of unity] **99d:18013**
Marmaridis, Nikolaos *see* **Assem, Ibrahim; et al.**, **99j:18011**
Peng, Chuang *see* **Carlson, Jon F.; et al.**, **99j:20005**
Salce, Luigi *see* **Fuchs, László[1]; et al.**, **99m:13036**
Wambst, Marc *see* **Kassel, Christian**, **99d:18013**
Wheeler, Wayne W. *see* **Carlson, Jon F.; et al.**, **99j:20005**
Zanardo, Paolo *see* **Fuchs, László[1]; et al.**, **99m:13036**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Arvasi, Zekeriya (*with* Koçak, Mahmut) Crossed N-cubes and n-crossed complexes of commutative algebras. (English summary) **99m:18009**
— (*with* Koçak, Mahmut) Dold-Kan type theorems for n-types of simplicitial [simplicial] commutative algebras. (English summary) **99m:18010**
— From simplicial groups to crossed complexes. (English summary) **99m:18011**
Baez, John C. (*with* Dolan, James) Categorification. (English summary) **99k:18016**
Berger, Clemens (*with* Huebschmann, Johannes) Comparison of the geometric bar and W-constructions. (English summary) **99e:18010**
Dolan, James *see* **Baez, John C.**, **99k:18016**
Dubois-Violette, Michel $d^N = 0$: generalized homology. (English summary) **99i:18016**
Goerss, P. G. (*with* Turner, James M.) Homotopy theory of simplicial abelian Hopf algebras. (English summary) **99k:18017**
Huebschmann, Johannes *see* **Berger, Clemens**, **99e:18010**
Koçak, Mahmut *see* **Arvasi, Zekeriya**, **99m:18009** *and* **99m:18010**
Mutlu, Ali (*with* Porter, Timothy) Freeness conditions for 2-crossed modules and complexes. (English summary) **99j:18013**
— (*with* Porter, Timothy) Applications of Peiffer pairings in the Moore complex of a simplicial group. (English summary) **99k:18018**
Porter, Timothy *see* **Mutlu, Ali**, **99j:18013** *and* **99k:18018**
Turner, James M. *see* **Goerss, P. G.**, **99k:18017**

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Ehlers, Philip John (*with* Porter, Timothy) Erratum to: "Varieties of simplicial groupoids. I. Crossed complexes" [J. Pure Appl. Algebra **120** (1997), no. 3, 221–233; MR 98d:55012]. **99k:55007**
Fimmel, Torsten Verdier duality for systems of coefficients over simplicial sets. (English summary) **99g:55024**
Fritsch, Rudolf (*with* Golasiński, Marek) Simplicial and categorical diagrams, and their equivariant applications. (English summary) **99d:55013**
Golasiński, Marek *see* **Fritsch, Rudolf**, **99d:55013**
Hovey, Mark ★ Model categories. (English summary) **99h:55031**
Mutlu, Ali Describe Peiffer commutators with GAP program in the Moore complex of a simplicial group. (English summary) **99k:55013**

Porter, Timothy *see* **Ehlers, Philip John, 99k:55007**
Turner, James M. Relations in the homotopy of simplicial abelian Hopf algebras. (English summary) **99m:55022**

18G35 Chain complexes [see also 18E30, 55U15]

Lada, Tom Commutators of A_∞ structures. **99j:18014**

Items with secondary classifications in 18G35

Barnich, Glenn (*with* Fulp, R.; Lada, Tom; Stasheff, James D.) The sh Lie structure of Poisson brackets in field theory. (English summary) **99j:17030**
Dubois-Violette, Michel Generalized homologies for $d^N = 0$ and graded q-differential algebras. (English summary) **99g:16012**
Fulp, R. *see* **Barnich, Glenn; et al., 99j:17030**
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Kassel, Christian (*with* Wambst, Marc) Algèbre homologique des N-complexes et homologie de Hochschild aux racines de l'unité. (English and French summaries) [Homology algebra of N-complexes and Hochschild homology at the roots of unity] **99d:18013**
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Ślusarek, M. *see* **Kaczyński, Tomasz; et al., 99a:18001**
Smirnov, V. A.[2] Description of the homology of groups and algebras. (Russian. Russian summary) **99g:16014**
Stasheff, James D. *see* **Barnich, Glenn; et al., 99j:17030**
Wambst, Marc *see* **Kassel, Christian, 99d:18013**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Cencelj, Matija Spectral sequences of unbounded bicomplexes. (English summary)
Sklyarenko, E. G. On filtrations in hyperhomology. (Russian. Russian summary) **99f:18016**

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Bella Baci, Abderrazak Homologie cyclique du produit croisé algébrique et groupes de surfaces. (English summary) [Cyclic homology of the algebraic crossed product and groups of surfaces] **99k:16015**
Mardešić, Sibe (*with* Prasolov, Andrei V.) On strong homology of compact spaces. (English summary) **99c:55005**
Prasolov, Andrei V. *see* **Mardešić, Sibe, 99c:55005**

18G50 Nonabelian homological algebra

Baues, Hans-Joachim (*with* Hartl, Manfred; Pirashvili, Teimuraz) Quadratic categories and square rings. (English summary) **99f:18017**
Hartl, Manfred *see* **Baues, Hans-Joachim; et al., 99f:18017**
Pirashvili, Teimuraz *see* **Baues, Hans-Joachim; et al., 99f:18017**

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Baues, Hans-Joachim The cobar construction as a Hopf algebra. (English summary) **99j:55006**
Brown, Ronald (*with* Porter, Timothy) On the Schreier theory of non-abelian extensions: generalisations and computations. (English summary) **99j:20057**
Hess, Kathryn Perturbation and transfer of generic algebraic structure. (English summary) **99k:55022**
Inasaridze, N. Non-abelian homology of groups. (Russian and Georgian summaries)
Inassaridze, H. (*with* Inassaridze, N.) New descriptions of the non-abelian homology of groups. (English summary)
Inassaridze, N. Nonabelian tensor products of precrossed modules. (English summary)
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Mutlu, Ali Describe Peiffer commutators with GAP program in the Moore complex of a simplicial group. (English summary) **99k:55013**
— (*with* Porter, Timothy) Freeness conditions for 2-crossed modules and complexes. (English summary) **99j:18013**
Nest, Ryszard (*with* Tsygan, Boris) The Fukaya type categories for associative algebras. **99b:16011**
Nuss, Philippe Noncommutative descent and non-abelian cohomology. (English summary) **99d:16001**
Porter, Timothy *see* **Mutlu, Ali, 99j:18013** *and* **Brown, Ronald, 99j:20057**
Roberts, John E. The cohomology and homology of quantum field theory. **99b:81137**
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Serre, Jean-Pierre Deux lettres sur la cohomologie non abélienne. [Two letters concerning nonabelian cohomology] **99d:20081**
Tsygan, Boris *see* **Nest, Ryszard, 99b:16011**

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Correspondence:
Serre, Jean-Pierre–Schneps, Leila *see* **Serre, Jean-Pierre, 99d:20081**

18G55 Nonabelian homotopical algebra

Brown, Ronald (*with* Golasiński, Marek; Porter, Timothy; Tonks, A.) Spaces of maps into classifying spaces for equivariant crossed complexes. (English summary) **99j:18015**
Carrasco, P. (*with* Martinez Moreno, J.) A 2-dimensional cohomology with coefficients in categorical groups. **99h:18014**
Golasiński, Marek *see* **Brown, Ronald; et al., 99j:18015**
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— (*with* Janelidze, George) Galois theory of second order covering maps of simplicial sets. (English summary) **99k:55021**
Casas Miras, José Manuel (*with* Ladra González, Manuel) The actor of a crossed module in Lie algebras. (English summary) **99f:17021**
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Goerss, P. G. (*with* Turner, James M.) Homotopy theory of simplicial abelian Hopf algebras. (English summary) **99k:18017**
Golasiński, Marek Injective models of G-disconnected simplicial sets. (English and French summaries) **99b:55020**
Hartl, Manfred *see* **Baues, Hans-Joachim; et al., 99f:18017**
Hovey, Mark ★ Model categories. (English summary) **99h:55031**
Janelidze, George *see* **Brown, Ronald, 99k:55021**
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Mutlu, Ali Describe Peiffer commutators with GAP program in the Moore complex of a simplicial group. (English summary) **99k:55013**
— (*with* Porter, Timothy) Freeness conditions for 2-crossed modules and complexes. (English summary) **99j:18013**
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Porter, Timothy *see* **Mutlu, Ali, 99j:18013**; **Brown, Ronald, 99j:20057** *and* **Ehlers, Philip John, 99k:55007**
Turner, James M. *see* **Goerss, P. G., 99k:18017**

18G60 Other (co)homology theories (cyclic, dihedral, etc.) [see also 19D55, 46L80, 58B30, 58G12]

Balavoine, David Homology and cohomology with coefficients, of an algebra over a quadratic operad. (English summary) **99j:18016**
Bendiffalah, B. (*with* Guin, D.) Cohomologie des morphismes. (French summary) [Cohomology of morphisms] **99i:18017**
Guin, D. *see* **Bendiffalah, B., 99i:18017**
Kassel, Christian (*with* Wambst, Marc) Algèbre homologique des N-complexes et homologie de Hochschild aux racines de l'unité. (English and French summaries) [Homology algebra of N-complexes and Hochschild homology at the roots of unity] **99d:18013**
Keller, Bernhard An overview of results on cyclic homology of exact categories. (English summary) **99j:18017**
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Farinati, Marco A. (*with* Solotar, Andrea) Localization on (necessarily) topological coalgebras and cohomology. **99m:16058**
Frabetti, Alessandra Leibniz homology of dialgebras of matrices. (English summary) **99g:16013**
Khusainov, A. A. Comparison of the dimensions of a small category. (Russian. Russian summary) **99b:18002**
Lodder, Gerald M. Leibniz cohomology for differentiable manifolds. (English and French summaries) **99b:17003**
Nest, Ryszard (*with* Tsygan, Boris) The Fukaya type categories for associative algebras. **99b:16011**
Paulsen, Vern I. Relative Yoneda cohomology for operator spaces. (English summary) **99j:46067**
Solotar, Andrea *see* **Farinati, Marco A., 99m:16058**
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18G99 None of the above, but in this section

Hinich, Vladimir Homological algebra of homotopy algebras. **99b:18017**
Ladra González, Manuel *see* **R.-Grandjeán L.-Valcárcel, Alfredo, 99k:18019**
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Bak, A. Topological methods in algebra. **99g:55025**
Chen, Ji Xiang A fibration of categories over $\mathscr{F}_B$. (English summary) **99b:55036**
García-Calcines, J. M. (*with* García-Pinillos, M.; Hernández, Luis Javier) A closed simplicial model category for proper homotopy and shape theories. (English summary) **99a:55017**
García-Pinillos, M. *see* **García-Calcines, J. M.; et al., 99a:55017**
Hernández, Luis Javier *see* **García-Calcines, J. M.; et al., 99a:55017**
Kadeishvili, T. (*with* Saneblidze, S.) On the iterated bar construction. (English summary)
Karoubi, Max Correspondance de Dold-Kan et formes differentielles. [Dold-Kan correspondence and differential forms] **99e:55035**
Klein, John R. Structure theorems for homotopy pushouts. I. Contractible pushouts. (English summary) **99a:55018**
Puite, Quintijn (*with* Schellinx, Harold) On the Jordan-Hölder decomposition of proof nets. (English summary) **99c:03098**
Saneblidze, S. *see* **Kadeishvili, T.**
Schellinx, Harold *see* **Puite, Quintijn, 99c:03098**

19–XX K-theory [see also 16E20, 18F25]

19–01 Instructional exposition (textbooks, tutorial papers, etc.)

Brodzki, Jacek ★ An introduction to K-theory and cyclic cohomology. (English summary) **99h:19001**

19–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 19–02

Benson, David John ★ Representations and cohomology. II. (English summary) **99f:20001b**

19–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 19–03

(Atiyah, Michael F.) *see* **Cartan, Henri**, **(99b:00010)**

Cartan, Henri L'œuvre de Michael F. Atiyah [MR 38 #1692]. (French summary) [The work of Michael F. Atiyah] (*see* **99b:00010**)

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A15 Efficient generation

Items with secondary classifications in 19A15

Kramer, Xenia H. (*with* Laubenbacher, Reinhard C.) Combinatorial homotopy of simplicial complexes and complex information systems. (English summary) **99d:05092**

Laubenbacher, Reinhard C. *see* **Kramer, Xenia H., 99d:05092**

19A22 Frobenius induction, Burnside and representation rings

Lewis, L. Gaunce, Jr. The category of Mackey functors for a compact Lie group. (English summary) **99b:19001**

Yoshida, Tomoyuki Crossed G-sets and crossed Burnside rings. **99b:19002**

Items with secondary classifications in 19A22

Boltje, Robert Linear source modules and trivial source modules. (English summary) **99d:20016**

— A general theory of canonical induction formulae. (English summary) **99k:20013**

Bouc, Serge ★ Green functors and G-sets. **99c:20010**

— Résolutions de foncteurs de Mackey. (English summary) [Resolutions of Mackey functors] **99b:20015**

Fottner, Hubert Lifting induction theorems. (English summary) **99m:20011**

Greenlees, J. P. C. Rational Mackey functors for compact Lie groups. I. **99f:55011**

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Nwabueze, K. K. Certain applications of the Burnside rings and ghost rings in the representation theory of finite groups. I. **99c:20007**

Oda, Fumihito On defect groups of the Mackey algebras for finite groups. (English summary) **99b:20019**

— Primitive idempotents of the Grothendieck ring of Mackey functors. (English summary) **99g:20022**

19A31 K_0 of group rings and orders

Emmanouil, Ioannis Solvable groups and Bass' conjecture. (English and French summaries) **99h:19002**

Items with secondary classifications in 19A31

Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, Victor P.) Galois structure of K-groups of rings of integers. (English summary) **99g:11140**

Gruenberg, Karl W. (*with* Ritter, Jürgen; Weiss, Alfred R.) On Chinburg's root number conjecture. **99a:11128**

Kolster, Manfred *see* **Chinburg, Ted; et al., 99g:11140**

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Pearson, Kimberly Algebraic K-theory of two-dimensional crystallographic groups. (English summary) **99c:19002**

Ritter, Jürgen *see* **Gruenberg, Karl W.; et al., 99a:11128**

Snaith, Victor P. *see* **Chinburg, Ted; et al., 99g:11140**

Stolin, Alexander On the Picard group of the integer group ring of the cyclic p-group and certain Galois groups. (English summary) **99h:13012**

Weiss, Alfred R. *see* **Gruenberg, Karl W.; et al., 99a:11128**

Wilson, S. M. J. Equivalence of factorizability theories. (English summary) **99e:20008**

19A49 K_0 of other rings

Hao, Zhi Feng Coalgebraic K-theory. I. K_0 groups. (Chinese. English and Chinese summaries) **99c:19001**

Items with secondary classifications in 19A49

Nikshych, D. A. K_0-rings and twisting of finite-dimensional semisimple Hopf algebras. (English summary) **99d:16045a**

— Erratum: "K_0-rings and twisting of finite-dimensional semisimple Hopf algebras". **99d:16045b**

— Corrigendum: "K_0-rings and twisting of finite-dimensional semisimple Hopf algebras". **99d:16045c**

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Snaith, Victor P. Hecke algebras and class-group invariants. (English summary) **99b:11129**

Tong, Wen Ting *see* **Zhu, Xiao Sheng, 99b:16009**

Zhu, Xiao Sheng (*with* Tong, Wen Ting) Categories of power stably free modules and their K_0 groups. (English summary) **99b:16009**

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10

Chen, Huan Yin Rings with stable range conditions. (English summary) **99m:16005**

Dykema, Kenneth J. (*with* Haagerup, Uffe; Rørdam, Mikael) The stable rank of some free product C^*-algebras. **99g:46077a**

— (*with* Haagerup, Uffe; Rørdam, Mikael) Correction to: "The stable rank of some free product C^*-algebras". **99g:46077b**

— Simplicity and the stable rank of some free product C^*-algebras. (English summary) **99g:46078**

Haagerup, Uffe *see* **Dykema, Kenneth J.; et al., 99g:46077a** *and* **99g:46077b**

Rørdam, Mikael *see* **Dykema, Kenneth J.; et al., 99g:46077a** *and* **99g:46077b**

19B28 K_1 of group rings and orders [see also 57Q10]

Badzioch, Bernard K_1 of twisted rings of polynomials. (English summary) **99m:19001**

Nenashev, A. Yu. K_1 by generators and relations. (English summary) **99g:19001**

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Pearson, Kimberly Algebraic K-theory of two-dimensional crystallographic groups. (English summary) **99c:19002**

19B99 None of the above, but in this section

Mushkudiani, Z. The K_1 and K_2 groups of monoid algebras over regular rings. (Russian and Georgian summaries) **99h:19003**

Nenashev, A. Yu. Double short exact sequences and K_1 of an exact category. (English summary) **99e:19001**

Sherman, Clayton On K_1 of an exact category. (English summary) **99e:19002**

Items with secondary classifications in 19B99

Merkur'ev, A. S. K-theory and algebraic groups. **99m:14085**

Nguyễn Quốc Thắng Weak approximation, R-equivalence and Whitehead groups. (English summary) **99c:20068**

19Cxx Steinberg groups and K_2

19C20 Symbols, presentations and stability of K_2

Greenberg, Peter Area preserving pl homeomorphisms and relations in K_2. (English and French summaries) **99d:19001**

Items with secondary classifications in 19C20

Böge, Sigrid Steinberggruppen von orthogonalen Gruppen. [Steinberg groups of orthogonal groups] **99d:20075**

19C99 None of the above, but in this section

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Browkin, Jerzy (*with* Gangl, Herbert) Tame and wild kernels of quadratic imaginary number fields. (English summary) **99c:11144**

Crainic, Marius (*with* Østvær, Paul Arne) On two-primary algebraic K-theory of quadratic number rings with focus on K_2. **99j:11138**

Gangl, Herbert *see* **Browkin, Jerzy, 99c:11144**

Mushkudiani, Z. The K_1 and K_2 groups of monoid algebras over regular rings. (Russian and Georgian summaries) **99h:19003**

Østvær, Paul Arne *see* **Crainic, Marius, 99j:11138**

19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Fajstrup, Lisbeth A $\mathbf{Z}/2$ descent theorem for the algebraic K-theory of a semisimple real algebra. (English summary) **99d:19002**

Lecomte, Florence Opérations d'Adams en K-théorie algébrique. (English summary) [Adams operations and algebraic K-theory] **99e:19003**

Items with secondary classifications in 19D06

Tai, Jin-Yen Generalized plus-constructions and fundamental groups. (English summary) **99i:55017**

19D10 Algebraic K-theory of spaces

Loday, Jean-Louis From diffeomorphism groups to loop spaces via cyclic homology. **99m:19002**
Weiss, Michael S. (*with* Williams, Bruce) Duality in Waldhausen categories. (English summary) **99g:19002**
Williams, Bruce *see* **Weiss, Michael S., 99g:19002**
Zaldívar, Felipe A note on 2-primary localized algebraic K-theory. (English summary) **99j:19001**

Items with secondary classifications in 19D10

Arone, Greg A generalization of Snaith-type filtration. (English summary) **99i:55011**
Davis, James Frederic (*with* Lück, Wolfgang) Spaces over a category and assembly maps in isomorphism conjectures in K- and L-theory. (English summary) **99m:55004**
Lück, Wolfgang *see* **Davis, James Frederic, 99m:55004**
McCarthy, Randy Relative algebraic K-theory and topological cyclic homology. **99e:19006**
Schlichtkrull, Christian The transfer map in topological Hochschild homology. (English summary) **99j:19003**

19D23 Symmetric monoidal categories [see also 18D10]

Items with secondary classifications in 19D23

Breen, Lawrence Braided n-categories and Σ-structures. (English summary) **99k:18011**

19D35 Negative K-theory, NK and Nil

Pearson, Kimberly Algebraic K-theory of two-dimensional crystallographic groups. (English summary) **99c:19002**

Items with secondary classifications in 19D35

McCarthy, Randy Relative algebraic K-theory and topological cyclic homology. **99e:19006**

19D45 Higher symbols, Milnor K-theory

Dundas, Bjørn Ian Continuity of K-theory: an example in equal characteristics. (English summary) **99e:19004**
Kurihara, Masato The exponential homomorphisms for the Milnor K-groups and an explicit reciprocity law. (English summary) **99i:19001**
Morel, Fabien Voevodsky's proof of Milnor's conjecture. **99e:19005**
Nakamura, Jinya The construction of Milnor K-groups for certain types of complete discrete valuation fields. (Japanese) (*see* **99d:11001**)

Items with secondary classifications in 19D45

Andrianov, Yu. A. On the Galois group of the maximal abelian p-extension of a multidimensional local field of characteristic p. (Russian. Russian summary) **99e:12002**

19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

Geisser, Thomas On K_3 of Witt vectors of length two over finite fields. (English summary) **99a:19001**
Kolster, Manfred (*with* Laubenbacher, Reinhard C.) On higher class groups of orders. **99i:19002**
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Tsalidis, Stavros Topological Hochschild homology and the homotopy descent problem. **99j:19002**

Items with secondary classifications in 19D50

Crainic, Marius (*with* Østvær, Paul Arne) On two-primary algebraic K-theory of quadratic number rings with focus on K_2. **99j:11138**
Dundas, Bjørn Ian Continuity of K-theory: an example in equal characteristics. (English summary) **99e:19004**
Østvær, Paul Arne *see* **Crainic, Marius, 99j:11138**

19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

Cuntz, Joachim Excision in periodic cyclic theory for topological algebras. (English summary) **99b:19003**
Dundas, Bjørn Ian Relative K-theory and topological cyclic homology. **99e:19007**
— K-theory theorems in topological cyclic homology. (English summary) **99h:19004**
Elbaz-Vincent, Philippe The indecomposable K_3 of rings and homology of SL_2. (English summary) **99f:19001**
Gaucher, Philippe Lambda-opérations sur l'homologie d'une algèbre de Lie de matrices. (English and French summaries) [Lambda operations on the homology of a Lie algebra of matrices] **99b:19004**
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19G12 Witt groups of rings [see also 11E81]

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19G24 L-theory of group rings [see also 11E81]

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19J05 Finiteness and other obstructions in K_0

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Zhang, Wei Ping[1] *see* **Dai, Xianzhe**, **99f:58196**

19K99 None of the above, but in this section

Lafforgue, Vincent Une démonstration de la conjecture de Baum-Connes pour les groupes réductifs sur un corps p-adique et pour certains groupes discrets possédant la propriété (T). (English and French summaries) [A proof of the Baum-Connes conjecture for reductive p-adic groups and for some discrete groups satisfying property (T)] **99k:19004**

Items with secondary classifications in 19K99

Donsig, Allan P. (*with* Power, S. C.) Homology for operator algebras. IV. On the regular classification of limits of 4-cycle algebras. (English summary) **99g:47109**
Evans, David E. (*with* Kawahigashi, Yasuyuki) ★ Quantum symmetries on operator algebras. **99m:46148**
Kawahigashi, Yasuyuki *see* **Evans, David E.**, **99m:46148**
Power, S. C. Homology for operator algebras. III. Partial isometry homotopy and triangular algebras. (English summary) **99g:47108**
— *see also* **Donsig, Allan P.**, **99g:47109**
Scărlătescu, Silvia Vector bundles and K-theory over non-Archimedean topological algebras. (English summary) **99m:46170**
Schick, Thomas A counterexample to the (unstable) Gromov-Lawson-Rosenberg conjecture. (English summary) **99j:53049**
Sudo, Takahiro Dimension theory of the C^*-algebras of Lie groups. **99a:46126**
— (*with* Takai, Hiroshi) Stable rank of the C^*-algebras of solvable Lie groups of type I. (English summary) **99a:46125**
Takai, Hiroshi *see* **Sudo, Takahiro**, **99a:46125**

19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

Hirzebruch, Friedrich A Riemann-Roch theorem for differentiable manifolds. (*see* **99f:00037**)

Items with secondary classifications in 19L10

Gorokhovsky, Alexander Chern classes in Alexander-Spanier cohomology. **99k:55017**

19L20 J-homomorphism, Adams operations [see also 55Q50]

Items with secondary classifications in 19L20

Gouda, Y. Gh. Adams and Steenrod operators in dihedral homology. (English summary) **99b:55007**
Tillmann, Ulrike On the homotopy of the stable mapping class group. (English summary) **99k:57036**

19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Lusztig, George Bases in equivariant K-theory. (English summary) **99i:19005**
Vasserot, E. Affine quantum groups and equivariant K-theory. (English summary) **99j:19007**

Items with secondary classifications in 19L47

Arouche, Abdelouahab Sur la complétion de la K-théorie équivariante. (English and French summaries) [On the completion of equivariant K-theory] **99a:55004**
Bauval, Anne $RKK(X)$-nucléarité (d'après G. Skandalis). (English and French summaries) [$RKK(X)$-nuclearity (after G. Skandalis)] **99h:19007**
Gong, Donggeng Equivariant Novikov conjecture for groups acting on Euclidean buildings. (English summary) **99c:58151**
Greenlees, J. P. C. (*with* May, J. P.) Localization and completion theorems for MU-module spectra. (English summary) **99i:55012**
— Rational S^1-equivariant stable homotopy theory. (English summary) **99i:55019**
Higson, Nigel (*with* Kasparov, G. G.; Trout, Jody) A Bott periodicity theorem for infinite-dimensional Euclidean space. (English summary) **99j:19005**
Kasparov, G. G. *see* **Higson, Nigel; et al.**, **99j:19005**
Komiya, Katsuhiro Equivariant maps between representation spheres of a torus. **99j:55002**
May, J. P. *see* **Greenlees, J. P. C.**, **99i:55012**
Minami, Haruo Note on complex K-groups of compact Lie groups with fundamental group of prime order. **99i:55002**
Trout, Jody *see* **Higson, Nigel; et al.**, **99j:19005**
Xu, Tianzhou Nonstable representable K-theory for σ-C^*-algebras. (English summary) **99m:46160**
Yu, Guoliang The Novikov conjecture for groups with finite asymptotic dimension. **99k:57072**

19L64 Computations, geometric applications

Items with secondary classifications in 19L64

Dwyer, William G. (*with* Mitchell, Stephen A.) On the K-theory spectrum of a ring of algebraic integers. (English summary) **99i:19003**
Mitchell, Stephen A. Units and general linear group cohomology for a ring of algebraic integers. **99k:19002**
— *see also* **Dwyer, William G.**, **99i:19003**

19M05 Miscellaneous applications of K-theory

Items with secondary classifications in 19M05

Kriz, Igor Morava K-theory of classifying spaces: some calculations. (English summary) **99a:55016**

20–XX Group theory and generalizations

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

Rosen, Joe ★ Symmetry discovered. (English summary) **99e:20001**
Wallace, D. A. R. ★ Groups, rings and fields. (English summary) **99i:20001**

Items with secondary classifications in 20–01

Bergman, George M. ★ An invitation to general algebra and universal constructions. **99h:18001**
Cameron, Peter J. ★ Introduction to algebra. (English summary)
Papini, Odile (*with* Wolfmann, Jacques) ★ Algèbre discrète et codes correcteurs. (French. French summary) [Discrete algebra and error correcting codes] **99e:94039**
(Reid, Miles) *see* **Shafarevich, Igor R., 99g:00009**
Shafarevich, Igor R. ★ Basic notions of algebra. **99g:00009**
Wolfmann, Jacques *see* **Papini, Odile, 99e:94039**

20–02 Research exposition (monographs, survey articles)

Benson, David John ★ Representations and cohomology. I. (English summary) **99f:20001a**
— ★ Representations and cohomology. II. (English summary) **99f:20001b**

Items with secondary classifications in 20–02

Aschbacher, Michael G. (*with* Smith, Stephen D.) Quasithin groups. (English summary) **99g:20027**
Bagiński, Czesław On the Burnside problems. (Polish) **99e:20050**
Ovsyannikov, A. Ya. *see* **Shevrin, L. N., 99c:20084**
Shevrin, L. N. (*with* Ovsyannikov, A. Ya.) ★ Semigroups and their subsemigroup lattices. (English summary) **99c:20084**
Smith, Stephen D. *see* **Aschbacher, Michael G., 99g:20027**
Zelmanov, Efim I. On the restricted Burnside problem. **99d:20061**

20–03 Historical (must also be assigned at least one classification number from Section 01)

Borel, Armand Full reducibility and invariants for $SL_2(\mathbf{C})$. **99h:20001**
Conway, John H. (*with* Curtis, Robert T.; Wilson, Robert A.) A brief history of the ATLAS. (*see* **99e:20002**)
Curtis, Robert T. *see* **Conway, John H.; et al., (99e:20002)**
Wilson, Robert A. *see* **Conway, John H.; et al., (99e:20002)**

Items with secondary classifications in 20–03

Aho, Tuomo Frege and his groups. (English summary) **99m:01017**
Bartolozzi, Federico The mathematical works of Michele Cipolla, especially concerning group theory. (Italian) (*see* **99d:01043**)
(Burnside, William) *see* **Lam, T. Y., 99e:01018b**
(Cipolla, Michele) *see* **Bartolozzi, Federico, (99d:01043)**
Feit, Walter The work of Efim Zelmanov [see MR 97c:00049]. (*see* **99b:00010**)
(Frege, Gottlob) *see* **Aho, Tuomo, 99m:01017**
Lam, T. Y. Representations of finite groups: a hundred years. I. **99e:01018a**
— Representations of finite groups: a hundred years. II. **99e:01018b**
(Orsatti, Adalberto) *see* **Salce, Luigi, 99j:01024**
Salce, Luigi Adalberto Orsatti's contribution to abelian group theory. **99j:01024**
(Zelmanov, Efim I.) *see* **Feit, Walter, (99b:00010)**

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Celler, F. (*with* Leedham-Green, Charles) A constructive recognition algorithm for the special linear group. (English summary) **99g:20001**
Holt, Derek F. The Meataxe as a tool in computational group theory. (English summary) **99k:20001**
Kantor, William M. Simple groups in computational group theory. (English summary) **99h:20002**
Leedham-Green, Charles (*with* Soicher, Leonard H.) Symbolic collection using Deep Thought. (English summary) **99f:20002**
— *see also* **Celler, F., 99g:20001**
Niemeyer, Alice C. (*with* Praeger, Cheryl E.) A recognition algorithm for classical groups over finite fields. **99k:20002**
Parker, Richard A. An integral meataxe. (English summary) **99k:20003**
Praeger, Cheryl E. *see* **Niemeyer, Alice C., 99k:20002**
Soicher, Leonard H. *see* **Leedham-Green, Charles, 99f:20002**

Items with secondary classifications in 20–04

Babai, László (*with* Luks, Eugene M.; Seress, Ákos) Fast management of permutation groups. I. (English summary) **99d:20007**
du Cloux, Fokko A transducer approach to Coxeter groups. (English summary) **99k:20084**
Eick, Bettina Special presentations for finite soluble groups and computing (pre-)Frattini subgroups. (English summary) **99a:20014**
Ellis, Graham J. (*with* Leonard, Frank) Computing Schur multipliers and tensor products of finite groups. (English summary) **99h:20084**
Leonard, Frank *see* **Ellis, Graham J., 99h:20084**
Lo, Eddie H. A polycyclic quotient algorithm. (English summary) **99c:20040**
Luks, Eugene M. *see* **Babai, László; et al., 99d:20007**
Metaftsis, Vasileios (*with* Miyamoto, Izumi) One-relator products of two groups of order three with short relators. **99d:20045**
Michler, Gerhard O. (*with* Solberg, Øyvind) Testing modules of groups of even order for simplicity. (English summary) **99b:20008**
Miyamoto, Izumi *see* **Metaftsis, Vasileios, 99d:20045**
Newman, M. F. (*with* O'Brien, E. A.) Classifying 2-groups by coclass. (English summary) **99c:20020**
O'Brien, E. A. *see* **Newman, M. F., 99c:20020**
Opgenorth, J. (*with* Plesken, Wilhelm; Schulz, T.) Crystallographic algorithms and tables. (English summary) **99h:20082**
Plesken, Wilhelm *see* **Opgenorth, J.; et al., 99h:20082**
Rees, Sarah Automatic groups associated with word orders other than shortlex. (English summary) **99m:20070**
Schulz, T. *see* **Opgenorth, J.; et al., 99h:20082**
Seress, Ákos *see* **Babai, László; et al., 99d:20007**
Solberg, Øyvind *see* **Michler, Gerhard O., 99b:20008**

20–06 Proceedings, conferences, collections, etc.

(Bonzini, Celestina) *see* **Semigroups, 99f:20003**
(Carter, R. W.) *see* **Algebraic groups and their representations, 99i:20002**
(Cherubini, Alessandra) *see* **Semigroups, 99f:20003**
(Chunikhin, Sergeĭ Antonovich) *see* **Problems in algebra, 99g:20005**
(Curtis, Robert T.) *see* **Atlas of finite groups: ten years on, 99e:20002**
(Fountain, John B.) *see* **Semigroups, formal languages and groups, 99b:20001**
(Kharlampovich, Olga) *see* **School: Group Theory, 99h:20003**
(Marchionna Tibiletti, Cesarina) *see* **Semigroups, 99f:20003**
(Monakhov, V. S.) *see* **Problems in algebra, 99g:20007**
(Passi, I. B. S.) *see* **Algebra, 99m:20001**
(Saxl, Jan) *see* **Algebraic groups and their representations, 99i:20002**
(Shemetkov, Leonid Aleksandrovich) *see* **Problems in algebra, 99g:20002; 99g:20003; 99g:20004; 99g:20005; 99g:20006** *and* **99g:20008**
(Wilson, Robert A.) *see* **Atlas of finite groups: ten years on, 99e:20002**

Items listed otherwise than by author

Algebra ★ Algebra. **99m:20001**
Algebraic groups and their representations ★ Algebraic groups and their representations. **99i:20002**
Atlas of finite groups: ten years on ★ The atlas of finite groups: ten years on. **99e:20002**
Banff, AB ★ Summer School in Group Theory in Banff, 1996. **99h:20003**
Birmingham ★ The atlas of finite groups: ten years on. **99e:20002**
Cambridge ★ Algebraic groups and their representations. **99i:20002**
Conference:
  Group Theory and its Applications ★ The atlas of finite groups: ten years on. **99e:20002**
  Problems in Algebra and Cybernetics ★ Вопросы алгебры. Вып. 9. (Russian) [Problems in algebra. No. 9] **99g:20005**
  Semigroups: Algebraic Theory and Applications to Formal Languages and Codes ★ Semigroups. **99f:20003**
Gomel' ★ Вопросы алгебры. Вып. 9. (Russian) [Problems in algebra. No. 9] **99g:20005**
Luino ★ Semigroups. **99f:20003**
Memorial Volume:
  Chunikhin, Sergeĭ Antonovich ★ Вопросы алгебры. Вып. 9. (Russian) [Problems in algebra. No. 9] **99g:20005**
Mito ★ Proceedings of the 20th Symposium on Semigroups, Languages and their Related Fields. **99a:20001**
NATO Advanced Study Institute:
  Modular Representations and Subgroup Structure of Algebraic Groups and Related Finite Groups ★ Algebraic groups and their representations. **99i:20002**
  Semigroups, Formal Languages and Groups ★ Semigroups, formal languages and groups. **99b:20001**
Problems in algebra ★ Вопросы алгебры. Вып. 7. (Russian) [Problems in algebra. No. 7] **99g:20003**
— ★ Вопросы алгебры. Вып. 6. (Russian) [Problems in algebra. No. 6] **99g:20002**
— ★ Вопросы алгебры. Вып. 8. (Russian) [Problems in algebra. No. 8] **99g:20004**
— ★ Вопросы алгебры. Вып. 9. (Russian) [Problems in algebra. No. 9] **99g:20005**
— ★ Вопросы алгебры. Вып. 10. (Russian) [Problems in algebra. No. 10] **99g:20006**
— ★ Вопросы алгебры. Вып. 11. (Russian) [Problems in algebra. No. 11] **99g:20007**
— ★ Вопросы алгебры. Вып. 12. (Russian) [Problems in algebra. No. 12] **99g:20008**
Proceedings:
  Symposium on Semigroups, Languages and their Related Fields ★ Proceedings of the 20th Symposium on Semigroups, Languages and their Related Fields. **99a:20001**
School:
  Group Theory ★ Summer School in Group Theory in Banff, 1996. **99h:20003**
Semigroups ★ Semigroups. **99f:20003**
Semigroups, formal languages and groups ★ Semigroups, formal languages and groups. **99b:20001**
Symposium:
  Semigroups, Languages and their Related Fields ★ Proceedings of the 20th Symposium on Semigroups, Languages and their Related Fields. **99a:20001**
York ★ Semigroups, formal languages and groups. **99b:20001**

Items with secondary classifications in 20–06

(Carey, Alan L.) *see* **Algebraic groups and Lie groups, 99b:00024**
(Carrell, James B.) *see* **Algebraic groups and Lie groups, 99b:00024**
(Dikranjan, Dikran N.) *see* **Abelian groups, module theory, and topology, 99f:00028**
(Droste, Manfred) *see* **Advances in algebra and model theory, 99k:00026**
(Ferrar, J.) *see* **Monster and Lie algebras, 99e:00021**
(Göbel, Rüdiger) *see* **Advances in algebra and model theory, 99k:00026**
(Greuel, Gert-Martin) *see* **Algorithmic algebra and number theory, 99h:00020**
(Harada, Kōichirō) *see* **Monster and Lie algebras, 99e:00021**
(Hazewinkel, M.) *see* **Algebra and combinatorics: interactions and applications, 99e:00015**
(Hiss, Gerhard) *see* **Algorithmic algebra and number theory, 99h:00020**
(Ivanov, Aleksandr Anatol'evich) *see* **Algebra and combinatorics: interactions and applications, 99e:00015**

(Kaluzhnin, Lev Arkad'evich) *see* **Algebra and combinatorics: interactions and applications, 99e:00015**
(Kantor, William M.) *see* **Groups and geometries, 99c:51004**
(Lehrer, G. I.) *see* **Algebraic groups and Lie groups, 99b:00024**
(Lochak, Pierre) *see* **Geometric Galois actions, 99f:14002**
(Lunardon, Guglielmo) *see* **Groups and geometries, 99c:51004**
(di Martino, Lino) *see* **Groups and geometries, 99c:51004**
(Matzat, B. Heinrich) *see* **Algorithmic algebra and number theory, 99h:00020**
(Murray, Michael K.) *see* **Algebraic groups and Lie groups, 99b:00024**
(Orsatti, Adalberto) *see* **Abelian groups, module theory, and topology, 99f:00028**
(Pak, G. K.) *see* **Algebras, groups and varieties, 99k:00020**
(Pasini, Antonio) *see* **Groups and geometries, 99c:51004**
(Richardson, Roger Wolcott) *see* **Algebraic groups and Lie groups, 99b:00024**
(Salce, Luigi) *see* **Abelian groups, module theory, and topology, 99f:00028**
(Schneps, Leila) *see* **Geometric Galois actions, 99f:14002**
(Springer, T. A.) *see* **Algebraic groups and Lie groups, 99b:00024**
(Tamburini Bellani, Maria Chiara) *see* **Groups and geometries, 99c:51004**
(Woldar, Andrew J.) *see* **Algebra and combinatorics: interactions and applications, 99e:00015**

Items listed otherwise than by author

Abelian groups, module theory, and topology ★ Abelian groups, module theory, and topology. **99f:00028**
Advances in algebra and model theory ★ Advances in algebra and model theory. **99k:00026**
Algebra and combinatorics: interactions and applications ★ Algebra and combinatorics: interactions and applications. **99e:00015**
Algebraic groups and Lie groups ★ Algebraic groups and Lie groups. **99b:00024**
Algebras, groups and varieties ★ Алгебры, группы, многообразия. (Russian) [Algebras, groups and varieties] **99k:00020**
Algorithmic algebra and number theory ★ Algorithmic algebra and number theory. **99h:00020**
Athens ★ Proceedings of the 1st Panhellenic Algebra Conference. **99a:00037**
Birthday:
Orsatti, Adalberto ★ Abelian groups, module theory, and topology. **99f:00028**
Columbus, OH ★ The Monster and Lie algebras. **99e:00021**
Conference:
Abelian Groups and Modules ★ Abelian groups, module theory, and topology. **99f:00028**
Algebra ★ Proceedings of the 1st Panhellenic Algebra Conference. **99a:00037**
Algebra and Combinatorics: Interactions and Applications ★ Algebra and combinatorics: interactions and applications. **99e:00015**
Algebra and Model Theory ★ Advances in algebra and model theory. **99k:00026**
Algorithmic Algebra and Number Theory ★ Algorithmic algebra and number theory. **99h:00020**
Groups and Geometries ★ Groups and geometries. **99c:51004**
Monster ★ The Monster and Lie algebras. **99e:00021**
Dresden ★ Advances in algebra and model theory. **99k:00026**
Essen ★ Advances in algebra and model theory. **99k:00026**
Festschrift:
Orsatti, Adalberto ★ Abelian groups, module theory, and topology. **99f:00028**
Geometric Galois actions ★ Geometric Galois actions. 2. **99f:14002**
Groups and geometries ★ Groups and geometries. **99c:51004**
Heidelberg ★ Algorithmic algebra and number theory. **99h:00020**
Königstein ★ Algebra and combinatorics: interactions and applications. **99e:00015**
Memorial Volume:
Richardson, Roger Wolcott ★ Algebraic groups and Lie groups. **99b:00024**
Monster and Lie algebras ★ The Monster and Lie algebras. **99e:00021**
Padua ★ Abelian groups, module theory, and topology. **99f:00028**
Proceedings:
Algebra Conference ★ Proceedings of the 1st Panhellenic Algebra Conference. **99a:00037**
Siena ★ Groups and geometries. **99c:51004**

20Axx Foundations

20A05 Axiomatics and elementary properties

Bökamp, Thomas Extending norms on groups. (English summary) **99g:20009**

20A10 Metamathematical considerations {For word problems, see 20F10.}

Gaglione, Anthony M. (*with* Spellman, Dennis) Almost locally free groups and the genus question. (English summary) **99i:20003**
Spellman, Dennis *see* **Gaglione, Anthony M., 99i:20003**

20A15 Applications of logic to group theory

Mitin, A. V. Undecidability of the elementary theory of groups of measure-preserving transformations. (Russian. Russian summary) **99d:20001**
Nagrebetskaya, Yu. V. *see* **Vazhenin, Yu. M.**
Vazhenin, Yu. M. (*with* Nagrebetskaya, Yu. V.) On critical theories of groups and monoids in integer-valued matrices. (Russian)
Wagner, Frank O. ★ Stable groups. (English summary) **99g:20010**

Items with secondary classifications in 20A15

Almeida, Jorge (*with* Silva, Pedro V.) On the hyperdecidability of semidirect products of pseudovarieties. (English summary) **99m:20136**
Altinel, Tuna (*with* Cherlin, Gregory; Corredor, Luis-Jaime; Nesin, Ali) A Hall theorem for ω-stable groups. **99f:20057**
Astier, Vincent Quelques propriétés-modèle théoriques des groupes spéciaux réduits. (English and French summaries) [Some model-theoretic properties of reduced special groups] **99d:03034**
Cherlin, Gregory *see* **Altinel, Tuna; et al., 99f:20057**
Corredor, Luis-Jaime *see* **Altinel, Tuna; et al., 99f:20057**
Khelif, Anatole Le passage d'un groupe libre à sa complétion profinie: étude logique. (English and French summaries) [Passage of a free group to its completion: a logical study] **99f:03044**
Kolman, Oren The Baer-Specker group. **99e:20068**
Lempp, Steffen The computational complexity of torsion-freeness of finitely presented groups. (English summary) **99e:03027**
Nesin, Ali *see* **Altinel, Tuna; et al., 99f:20057**
Silva, Pedro V. *see* **Almeida, Jorge, 99m:20136**
Wagner, Frank O. On the structure of stable groups. (English summary) **99c:03054**
Wilson, John S. First-order group theory. (English summary) **99f:03045**

20A99 None of the above, but in this section

Goodson, Geoffrey R. Inverse conjugacies and reversing symmetry groups.
Romo Santos, Concepción Principal topics of algebra. Applications. (Spanish)
Yang, Wen Ze Power groups and their generating groups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20A99

Brodskiĭ, Ya. S. (*with* Slipenko, A. K.) Functional equations and groups: a formal introduction.
Keremedis, Kyriakos Some equivalents of AC in algebra. II. (English summary) **99h:03028**
Slipenko, A. K. *see* **Brodskiĭ, Ya. S.**

20Bxx Permutation groups

20B05 General theory for finite groups

Conway, John H. (*with* Hulpke, Alexander; McKay, John) On transitive permutation groups. (English summary) **99g:20011**
Cossey, John Quotients of permutation groups. (English summary) **99c:20001**
Evdokimov, Sergei (*with* Karpinski, Marek; Ponomarenko, I. N.) Compact cellular algebras and permutation groups. (English summary) **99k:20004**
Hassani, A. (*with* Khayaty, M.) Transitive permutation groups which have bounded movement. (English summary) **99k:20005**
Higuchi, Osamu (*with* Miyamoto, Izumi) The 2-generators for certain simple permutation groups of small degree. (English summary) **99f:20004**
Hulpke, Alexander *see* **Conway, John H.; et al., 99g:20011**
Karpinski, Marek *see* **Evdokimov, Sergei; et al., 99k:20004**
Khayaty, M. *see* **Hassani, A., 99k:20005**
Kisielewicz, Andrzej Symmetry groups of Boolean functions and constructions of permutation groups. (English summary) **99b:20002**
Lucchini, Andrea Enumerating transitive finite permutation groups. **99g:20012**
McKay, John *see* **Conway, John H.; et al., 99g:20011**
Miyamoto, Izumi *see* **Higuchi, Osamu, 99f:20004**
Ponomarenko, I. N. *see* **Evdokimov, Sergei; et al., 99k:20004**
Shalev, Aner Finite groups and almost free actions. (English summary) **99g:20013**
Sury, B. On permutation representations of polyhedral groups. (English summary) **99j:20001**

Items with secondary classifications in 20B05

Zvonkin, Alexander How to draw a group? (English summary) **99b:05079**

20B07 General theory for infinite groups

Bhattacharjee, Meenaxi (*with* Macpherson, Dugald; Möller, Rögnvaldur G.; Neumann, Peter M.) ★ Notes on infinite permutation groups. (English summary) **99e:20003**
Cameron, Peter J. On an algebra related to orbit-counting. (English summary) **99b:20003**
Dougherty, Randall (*with* Mycielski, Jan) Representations of infinite permutations by words. II. (English summary) **99j:20002**
Macpherson, Dugald *see* **Bhattacharjee, Meenaxi; et al., 99e:20003**
Möller, Rögnvaldur G. *see* **Bhattacharjee, Meenaxi; et al., 99e:20003**
Mycielski, Jan *see* **Dougherty, Randall, 99j:20002**
Neumann, Peter M. *see* **Bhattacharjee, Meenaxi; et al., 99e:20003**

20B10 Characterization theorems

Items with secondary classifications in 20B10

Wu, Yu-Fen Groups in which commutativity is a transitive relation. (English summary) **99f:20065**

20B15 Primitive groups

Baddeley, Robert W. Maximal sections and primitive permutation groups of twisted wreath type. (English summary) **99d:20002**
Baumeister, Barbara Factorizations of primitive permutation groups. **99i:20004**
Dixon, J. D. (*with* Zalesskiĭ, Aleksandr E.) Finite primitive linear groups of prime degree. **99f:20005**
Gluck, David (*with* Seress, Ákos; Shalev, Aner) Bases for primitive permutation groups and a conjecture of Babai. (English summary) **99b:20004**
Guralnick, Robert M. (*with* Magaard, Kay) On the minimal degree of a primitive permutation group. (English summary) **99g:20014**

Liebeck, Martin W. (*with* Shalev, Aner) Simple groups, permutation groups, and probability. (English summary) **99h:20004**
Magaard, Kay *see* **Guralnick, Robert M., 99g:20014**
Seress, Ákos *see* **Gluck, David; et al., 99b:20004**
Shalev, Aner *see* **Gluck, David; et al., 99b:20004** *and* **Liebeck, Martin W., 99h:20004**
Zalesskiĭ, Aleksandr E. *see* **Dixon, J. D., 99f:20005**

Items with secondary classifications in 20B15

Praeger, Cheryl E. Finite quasiprimitive graphs. (English summary) **99b:05076**
Pyber, László Group enumeration and where it leads us. **99i:20037**
Shalev, Aner Simple groups, permutation groups, and probability. (English summary) **99f:20024**
Vasil'ev, Andreĭ Viktorovich Minimal permutation representations of finite simple exceptional groups of twisted type. (Russian. Russian summary) **99m:20115**

20B20 Multiply transitive finite groups

Lang, Mong Lung Transitive groups of degree $2p + k$. (English summary) **99c:20002**
Wähling, Heinz Über die Normalteiler scharf zweifach und scharf dreifach transitiver Permutationsgruppen. (English summary) [On the normal subgroups of sharply 2-transitive and sharply 3-transitive permutation groups] **99m:20002**

Items with secondary classifications in 20B20

Lucchini, Andrea Generating minimally transitive groups. (English summary) **99g:20054**
Stafford, Richard M. Groups of permutation polynomials over finite fields. (English summary) **99j:20003**

20B22 Multiply transitive infinite groups

Kuznetsov, Evgeniĭ Alekseevich Sharply 2-transitive permutation groups. I. (English summary) **99b:20005**
Mazurov, Viktor Danilovich On sharply 2-transitive groups [translation of *Proceedings of the Institute of Mathematics, 30* (Russian), 114–118, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99b:20006**

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51–XX]

Burns, John M. (*with* Goldsmith, Brendan) The trace of an abelian group—an application to digraphs. (English summary) **99f:20006**
Goldsmith, Brendan *see* **Burns, John M., 99f:20006**
Ito, Noboru On Hadamard 2-groups. (English summary) **99k:20006**
Liebeck, Martin W. The classification of finite linear spaces with flag-transitive automorphism groups of affine type. **99k:20007**
Stafford, Richard M. Groups of permutation polynomials over finite fields. (English summary) **99j:20003**

Items with secondary classifications in 20B25

Acketa, Dragan M. *see* **Mudrinski, Vojislav, 99k:05049**
Adrianov, Nikolai (*with* Shabat, G. B.) Unicellular cartography and Galois orbits of plane trees. **99h:12004**
Baumeister, Barbara (*with* Pasini, Antonio) On $C_2.L$-geometries. (English summary) **99k:51014a**
— *see also* **Pasini, Antonio, 99k:51014b**
Bleher, Frauke M. (*with* Geck, Meinolf; Kimmerle, Wolfgang) Automorphisms of generic Iwahori-Hecke algebras and integral group rings of finite Coxeter groups. **99f:20010**
Božikov, Zdravka Symmetric designs with parameters (69, 17, 4) and F_{39} as a group of automorphisms. (English summary) **99e:05016**
Cameron, Peter J. Groups. (English summary) (*see* **99a:05001**)
Conder, Marston D. E. (*with* Walker, Cameron G.) Vertex-transitive non-Cayley graphs with arbitrarily large vertex-stabilizer. (English summary) **99i:05097**
Das, Kaustuv Mukul Some results about the Quillen complex of $\mathrm{Sp}_{2n}(q)$. (English summary) **99i:20066**
Du, Shao-Fei (*with* Xu, Ming-Yao) Vertex-primitive $\frac{1}{2}$-arc-transitive graphs of smallest order. (English summary) **99m:05067**
Eisfeld, Jörg On the common nature of spreads and pencils in PG(d, q). (English summary) **99g:05042**
Evdokimov, Sergei (*with* Karpinski, Marek; Ponomarenko, I. N.) Compact cellular algebras and permutation groups. (English summary) **99k:20004**
Fang, Xin Gui (*with* Li, Cai Heng; Praeger, Cheryl E.) On orbital regular graphs and Frobenius graphs. (English summary) **99c:05090**
— (*with* Praeger, Cheryl E.) On graphs admitting arc-transitive actions of almost simple groups. (English summary) **99f:05052**
Geck, Meinolf *see* **Bleher, Frauke M.; et al., 99f:20010**
George, John C. *see* **Sanders, Robin Sue, 99d:05041**
Gorlov, V. V. (*with* Pöschel, R.) Clones closed with respect to permutation groups or transformation semigroups. (English summary) **99k:08005**
Hanaki, Akihide (*with* Miyamoto, Izumi) Classification of association schemes with 18 and 19 vertices. (English summary) **99m:05170**
Jones, Gareth A. *see* **Lloyd, E. Keith, 99m:05068**
Karpinski, Marek *see* **Evdokimov, Sergei; et al., 99k:20004**
Kimmerle, Wolfgang *see* **Bleher, Frauke M.; et al., 99f:20010**
Kostant, Bertram The graph of the truncated icosahedron and the last letter of Galois [Notices Amer. Math. Soc. **42** (1995), no. 9, 959–968; MR 96g:52024a]. (Catalan)
Li, Cai Heng A family of quasiprimitive 2-arc transitive graphs which have non-quasiprimitive full automorphism groups. (English summary) **99e:05066**
— *see also* **Fang, Xin Gui; et al., 99c:05090**
Lloyd, E. Keith (*with* Jones, Gareth A.) Reaction graphs. (English summary) **99m:05068**
Marenich, E. E. The action of the automorphism group of a finite graded partially ordered set on levels. (Russian. Russian summary) **99e:06004**
Marušič, Dragan Half-transitive group actions on finite graphs of valency 4. (English summary) **99h:05056**
Miyamoto, Izumi *see* **Hanaki, Akihide, 99m:05170**
Mudrinski, Vojislav (*with* Acketa, Dragan M.) Some designs with projective symplectic groups as automorphism groups. (English summary) **99k:05049**
(Nart, Enric) *see* **Kostant, Bertram**
Nemirovskaya, N. A. The Frucht theorem for inverse semigroups. (Russian. Russian summary) **99b:20097**
Pálfy, P. P. (*with* Pyber, László) Small groups of automorphisms. (English summary) **99g:20040**
Pasini, Antonio Errata: "Parallelism and cubes in $C_2.c$-geometries" [European J. Combin. **19** (1998), no. 2, 183–213; MR 99a:51010] by Pasini and "On $C_2.L$-geometries" [Geom. Dedicata **71** (1998), no. 1, 33–59; MR 99k:51014a] by B. Baumeister and Pasini. **99k:51014b**
— *see also* **Baumeister, Barbara, 99k:51014a**
Ponomarenko, I. N. *see* **Evdokimov, Sergei; et al., 99k:20004**
Pöschel, R. *see* **Gorlov, V. V., 99k:08005**
Praeger, Cheryl E. *see* **Fang, Xin Gui; et al., 99c:05090** *and* **99f:05052**
Pyber, László *see* **Pálfy, P. P., 99g:20040**
Roberts, David P. Twin sextic algebras. **99j:12001**
Sanders, Robin Sue (*with* George, John C.) Basic results concerning the automorphism group of the tensor product of two graphs. (English summary) **99d:05041**
Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Divisible designs admitting a Suzuki group as an automorphism group. (Italian summary) **99m:05041**
— Constant weight codes and divisible designs with large automorphism groups. (English summary) **99j:94078**
See, Kyoungah (*with* Song, Sung Y.) Association schemes of small order. (English summary) **99m:05172**
Shabat, G. B. *see* **Adrianov, Nikolai, 99h:12004**
Song, Sung Y. *see* **See, Kyoungah, 99m:05172**
Spera, Antonino Giorgio *see* **Schulz, Ralph-Hardo, 99m:05041**
Walker, Cameron G. *see* **Conder, Marston D. E., 99i:05097**
Xu, Ming-Yao *see* **Du, Shao-Fei, 99m:05067**

20B27 Infinite automorphism groups [see also 12F10]

Alperin, J. L. (*with* Covington, Jacinta; Macpherson, Dugald) Automorphisms of quotients of symmetric groups. (English summary) **99a:20002**
Covington, Jacinta (*with* Thomas, Doreen A.) A homogenizable fishy poorset. (English summary) **99m:20003**
— *see also* **Alperin, J. L.; et al., 99a:20002**
Gschwend, Th. (*with* Kegel, Otto H.) On the group of weak automorphisms of a family of equivalence relations. (English summary) **99i:20005**
Kegel, Otto H. *see* **Gschwend, Th., 99i:20005**
Macpherson, Dugald *see* **Alperin, J. L.; et al., 99a:20002**
Mnukhin, V. B. The k-orbit reconstruction for abelian and Hamiltonian groups. (English summary) **99i:20006**
Möller, Rögnvaldur G. (*with* Seifter, Norbert) Digraphical regular representations of infinite finitely generated groups. (English summary) **99i:20007**
Rubin, Matatyahu Locally moving groups and reconstruction problems. (English summary) **99d:20003**
Seifter, Norbert *see* **Möller, Rögnvaldur G., 99i:20007**
Thomas, Doreen A. *see* **Covington, Jacinta, 99m:20003**
Thomas, Simon R. Groups acting on infinite-dimensional symplectic spaces. (English summary) **99j:20004**

Items with secondary classifications in 20B27

Cameron, Peter J. Oligomorphic groups and homogeneous graphs. (English summary) **99d:05038**
Goldstern, Martin (*with* Kojman, Menachem) Rules and reals. (English summary) **99h:03029**
Kojman, Menachem *see* **Goldstern, Martin, 99h:03029**

20B30 Symmetric groups

Bardakov, V. G. Even permutations that are not representable as the product of two permutations of a given order. (Russian. Russian summary) **99d:20004**
Gawron, Piotr W. (*with* Tomaszewski, Witold) On arrangement of regular cyclic subgroup in symmetric group. (English summary) **99i:20008**
He, Ming Feng *see* **Wang, Yi; et al., 99c:20003**
Kim, Sungsoon Mots de longueur maximale dans une classe de conjugaison d'un groupe symétrique, vu comme groupe de Coxeter. (English and French summaries) [Words of maximal length in a conjugacy class of a symmetric group, viewed as a Coxeter group] **99k:20008**
Ma, Yi Hua *see* **Wang, Yi; et al., 99c:20003**
Tomaszewski, Witold *see* **Gawron, Piotr W., 99i:20008**
Vishne, Uzi Mixing and covering in the symmetric groups. (English summary) **99d:20005**
Wang, Yi (*with* He, Ming Feng; Ma, Yi Hua) A renumbering problem for two sequences. (Chinese. English and Chinese summaries) **99c:20003**

Items with secondary classifications in 20B30

Alperin, J. L. (*with* Covington, Jacinta; Macpherson, Dugald) Automorphisms of quotients of symmetric groups. (English summary) **99a:20002**
Betten, Anton (*with* Klin, Mikhail; Laue, Reinhard; Wassermann, Alfred) Graphical t-designs via polynomial Kramer-Mesner matrices. (English summary) **99i:05027**
Boykett, Timothy H. H. Combinatorial construction of one-dimensional reversible cellular automata. (English summary) **99c:68179**
Covington, Jacinta *see* **Alperin, J. L.; et al., 99a:20002**

Du, Jie (*with* Parshall, Brian; Scott, Leonard L.) Cells and q-Schur algebras. (English summary) **99a:20041**
Fulman, Jason The distribution of descents in fixed conjugacy classes of the symmetric groups. (English summary) **99j:05004**
Klin, Mikhail *see* **Betten, Anton; et al., 99i:05027**
Laue, Reinhard *see* **Betten, Anton; et al., 99i:05027**
Lempken, Wolfgang (*with* Parker, Christopher W.; Rowley, Peter J.) Minimal parabolic systems for the symmetric and alternating groups. (English summary) **99h:20020**
Macpherson, Dugald *see* **Alperin, J. L.; et al., 99a:20002**
Parker, Christopher W. *see* **Lempken, Wolfgang; et al., 99h:20020**
Parshall, Brian *see* **Du, Jie; et al., 99a:20041**
Rowley, Peter J. *see* **Lempken, Wolfgang; et al., 99h:20020**
Scott, Leonard L. *see* **Du, Jie; et al., 99a:20041**
Wassermann, Alfred *see* **Betten, Anton; et al., 99i:05027**

20B35 Subgroups of symmetric groups

Bigelow, Stephen Supplements of bounded permutation groups. (English summary) **99b:20007**
Eriksson, Henrik (*with* Eriksson, Kimmo) Affine Weyl groups as infinite permutations. (English summary) **99d:20006**
Eriksson, Kimmo *see* **Eriksson, Henrik, 99d:20006**
Hjorth, Greg Cameron's cofinitary group conjecture. **99a:20003**

Items with secondary classifications in 20B35

Al-Amri, Ibraham R. Symmetric and permutational generating set of the groups A_{kn+1} and S_{kn+1} using S_n and an element of order k. (English summary) **99a:20029**
Evans, David M. Finite covers with finite kernels. (English summary) **99f:03040**
Gawron, Piotr W. (*with* Tomaszewski, Witold) On arrangement of regular cyclic subgroup in symmetric group. (English summary) **99i:20008**
Kisielewicz, Andrzej Symmetry groups of Boolean functions and constructions of permutation groups. (English summary) **99b:20002**
Tomaszewski, Witold *see* **Gawron, Piotr W., 99i:20008**

20B40 Computational methods

Babai, László (*with* Luks, Eugene M.; Seress, Ákos) Fast management of permutation groups. I. (English summary) **99d:20007**
Luks, Eugene M. (*with* Seress, Ákos) Computing the Fitting subgroup and solvable radical of small-base permutation groups in nearly linear time. (English summary) **99g:20015**
— *see also* **Babai, László; et al., 99d:20007**
Minkwitz, Torsten An algorithm for solving the factorization problem in permutation groups. (English summary) **99e:20004**
Seress, Ákos *see* **Babai, László; et al., 99d:20007** *and* **Luks, Eugene M., 99g:20015**

Items with secondary classifications in 20B40

Bousquet-Mélou, Mireille Multi-statistic enumeration of two-stack sortable permutations. (English summary) **99b:05001**
Breuer, Thomas (*with* Pfeiffer, Götz) Finding possible permutation characters. (English summary) **99e:20005**
Conway, John H. (*with* Hulpke, Alexander; McKay, John) On transitive permutation groups. (English summary) **99g:20011**
Gluck, David (*with* Seress, Ákos; Shalev, Aner) Bases for primitive permutation groups and a conjecture of Babai. (English summary) **99b:20004**
Hulpke, Alexander *see* **Conway, John H.; et al., 99g:20011**
Kantor, William M. Simple groups in computational group theory. (English summary) **99h:20002**
Linton, Stephen (*with* Pfeiffer, Götz; Robertson, Edmund; Ruškuc, N.) Groups and actions in transformation semigroups. (English summary) **99e:20078**
McKay, John *see* **Conway, John H.; et al., 99g:20011**
Pfeiffer, Götz *see* **Breuer, Thomas, 99e:20005** *and* **Linton, Stephen; et al., 99e:20078**
Robertson, Edmund *see* **Linton, Stephen; et al., 99e:20078**
Ruškuc, N. *see* **Linton, Stephen; et al., 99e:20078**
Seress, Ákos *see* **Gluck, David; et al., 99b:20004**
Shalev, Aner *see* **Gluck, David; et al., 99b:20004**
Zvonkin, Alexander How to draw a group? (English summary) **99b:05079**

20B99 None of the above, but in this section

Breuer, Thomas (*with* Pfeiffer, Götz) Finding possible permutation characters. (English summary) **99e:20005**
Hassani, A. (*with* Sedghi, S.) Movement and separation and quasi-invariant subsets for group action. (English summary) (*see* **99a:00041**)
Pfeiffer, Götz *see* **Breuer, Thomas, 99e:20005**
Sedghi, S. *see* **Hassani, A., (99a:00041)**

Items with secondary classifications in 20B99

Akbaş, M. (*with* Başkan, T.) Suborbital graphs for the normalizer of $\Gamma_0(N)$. (English and Turkish summaries) **99a:11050**
Başkan, T. *see* **Akbaş, M., 99a:11050**
Cherlin, Gregory Large finite structures with few types. (English summary) **99d:03031**
Drápal, Aleš On free Frobenius groups generated by left translations. (English summary) **99b:20102**
Kaikkonen, Markku Codes from affine permutation groups. (English summary) **99j:94075**
Koshan, Jeffrey W. Structure results for transitive, untwisted, superlinked finite covers. **99f:03041**
Leemans, Dimitri An atlas of regular thin geometries for small groups. (English summary) **99m:51018**
Leung, Ka Hin (*with* Man, Shing Hing) On Schur rings over cyclic groups. (English summary) **99i:20009**
Lucchini, Andrea Generating wreath products and their augmentation ideals. **99c:20029**
Man, Shing Hing *see* **Leung, Ka Hin, 99i:20009**
Müller, Thomas W. Finite group actions and asymptotic expansion of $e^{P(z)}$. (English summary) **99m:05009**
Qin, Yong (*with* Zhu, Zuo Tong) Weak transitivity of lattice-ordered permutation groups. (Chinese. English and Chinese summaries) **99b:06017**
Tabachnikov, S. L. On functions with zero mean with respect to a finite group. (Russian) **99a:42001**
Zhu, Zuo Tong *see* **Qin, Yong, 99b:06017**

20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

Items with secondary classifications in 20Cxx

Benson, David John ★ Representations and cohomology. I. (English summary) **99f:20001a**
— ★ Representations and cohomology. II. (English summary) **99f:20001b**

20C05 Group rings of finite groups and their modules [see also 16S34]

Bergeron, Nantel (*with* van Willigenburg, Stephanie) A multiplication rule for the descent algebra of type D. (English summary) **99f:20008**
Carlson, Jon F. (*with* Peng, Chuang; Wheeler, Wayne W.) Transfer maps and virtual projectivity. (English summary) **99j:20005**
Du, Jie (*with* Parshall, Brian; Scott, Leonard L.) Stratifying endomorphism algebras associated to Hecke algebras. (English summary) **99e:20006**
Halverson, Tom (*with* Ram, Arun) Murnaghan-Nakayama rules for characters of Iwahori-Hecke algebras of the complex reflection groups $G(r, p, n)$. (English summary) **99e:20007**
Jiao, Zheng Ming *see* **Zhang, Yingshan; et al., 99f:20009**
Kimmerle, Wolfgang On the characterization of finite groups by characters. (English summary) **99g:20016**
Leung, Ka Hin (*with* Man, Shing Hing) On Schur rings over cyclic groups. (English summary) **99i:20009**
Man, Shing Hing *see* **Leung, Ka Hin, 99i:20009**
Michler, Gerhard O. (*with* Solberg, Øyvind) Testing modules of groups of even order for simplicity. (English summary) **99b:20008**
Muzychuk, Mikhail E. The structure of Schur rings over cyclic groups of square-free order. (English summary) **99h:20005**
Pang, Shanqi *see* **Zhang, Yingshan; et al., 99f:20009**
Park, Won-Sun The units and idempotents in the group ring of a finite cyclic group. (English summary) **99g:20017**
Parshall, Brian *see* **Du, Jie; et al., 99e:20006**
Peng, Chuang *see* **Carlson, Jon F.; et al., 99j:20005**
Ram, Arun *see* **Halverson, Tom, 99e:20007**
Scott, Leonard L. *see* **Du, Jie; et al., 99e:20006**
Solberg, Øyvind *see* **Michler, Gerhard O., 99b:20008**
Wheeler, Wayne W. *see* **Carlson, Jon F.; et al., 99j:20005**
van Willigenburg, Stephanie A proof of Solomon's rule. (English summary) **99f:20007**
— *see also* **Bergeron, Nantel, 99f:20008**
Zhang, Yingshan (*with* Pang, Shanqi; Jiao, Zheng Ming; Zhao, Wen Zheng) Group partition and systems of orthogonal idempotents. (English summary) **99f:20009**
Zhao, Wen Zheng *see* **Zhang, Yingshan; et al., 99f:20009**

Items with secondary classifications in 20C05

Arora, Satya R. (*with* Hales, A. W.; Passi, I. B. S.) The multiplicative Jordan decomposition in group rings. **99j:16015**
Baranov, Aleksandr A. (*with* Kleshchev, Alexander S.) Maximal ideals in modular group algebras of the finitary symmetric and alternating groups. **99d:16028**
Barker, Laurence On p-soluble groups and the number of simple modules associated with a given Brauer pair. **99f:20013**
Bleher, Frauke M. Finite groups of Lie type of small rank. (English summary) **99m:20020**
Broué, Michel (*with* Malle, Gunter; Rouquier, Raphaël) Complex reflection groups, braid groups, Hecke algebras. (English summary) **99m:20088**
Coleman, Donald B. (*with* Sandling, Robert) Mod 2 group algebras with metabelian unit groups. (English summary) **99j:16021**
Dade, Everett C. Blocks of fully graded rings. (English summary) **99b:16066**
Ellers, H. The defect groups of a clique. **99b:20017**
Fiedler, Bernd An algorithm for the decomposition of ideals of the group ring of a symmetric group. (English summary) **99b:20024**
Gonzalez-Lorca, Jorge Structure des algèbres de Hecke de type A: un isomorphisme explicite. (English and French summaries) [Structure of the Hecke algebra of type A: an explicit isomorphism] **99k:20026**
Hales, A. W. *see* **Arora, Satya R.; et al., 99j:16015**
Hindman, Peter (*with* Klingler, Lee; Odenthal, Charles J.) On the Krull-Schmidt-Azumaya theorem for integral group rings. (English summary) **99i:16012**
Holt, Derek F. The Meataxe as a tool in computational group theory. (English summary) **99k:20001**
Huang, G. On extended block induction and Brauer's third main theorem. **99b:20018**
Huppert, Bertram ★ Character theory of finite groups. **99j:20011**
Kawata, Shigeto On Auslander-Reiten components and simple modules for finite group algebras. **99d:16015**
Kleshchev, Alexander S. *see* **Baranov, Aleksandr A., 99d:16028**
Klingler, Lee *see* **Hindman, Peter; et al., 99i:16012**
Lucchini, Andrea Generating wreath products and their augmentation ideals. **99c:20029**
Lux, Klaus (*with* Wiegelmann, Markus) Condensing tensor product modules. (English summary) **99i:20018**
Malle, Gunter *see* **Broué, Michel; et al., 99m:20088**

Marcus, Andrei Projective modules over twisted group algebras of p-solvable groups. (English summary) **99m:16069**
Neisse, Olaf (*with* Sehgal, Sudarshan K.) Units in integral group rings over Solomon fields. (English summary) **99j:16022**
Odenthal, Charles J. *see* **Hindman, Peter; et al., 99i:16012**
Passi, I. B. S. *see* **Arora, Satya R.; et al., 99j:16015**
Passman, Donald S. (*with* Wauters, Paul) Semi-invariants and weights of group algebras of finite groups. (English summary) **99h:16041**
Robinson, Geoffrey R. Further consequences of conjectures like Alperin's. **99b:20020**
Rouquier, Raphaël *see* **Broué, Michel; et al., 99m:20088**
Sandling, Robert *see* **Coleman, Donald B., 99j:16021**
Sehgal, Sudarshan K. *see* **Neisse, Olaf, 99j:16022**
Stolin, Alexander On the Picard group of the integer group ring of the cyclic p-group and certain Galois groups. (English summary) **99h:13012**
Toffalori, Carlo An undecidability theorem for lattices over group rings. (English summary) **99h:03020**
Vasantha Kandasamy, W. B. A note on group rings which are F-rings. (English summary)
Wauters, Paul *see* **Passman, Donald S., 99h:16041**
Wiegelmann, Markus *see* **Lux, Klaus, 99i:20018**

20C07 Group rings of infinite groups and their modules [see also 16S34]

Carlson, Jon F. A characterization of endotrivial modules over p-groups. (English summary) **99h:20006**
Danchev, Peter Isomorphism of commutative modular group algebras. (English summary) **99m:20004**
— Invariants of commutative group algebras. (English summary) **99m:20005**
Hill, Paul (*with* Ullery, William) On commutative group algebras of mixed groups. (English summary) **99d:20008**
Kochloukova, Dessislava H. Finite generation of exterior and symmetric powers. (English summary) **99i:20010**
Kurdachenko, Leonid A. (*with* Petrenko, B. V.; Subbotin, Igor Ya.) Direct decompositions in Artinian modules over FC-hypercentral groups. (English summary) **99k:20009**
Petrenko, B. V. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**
Subbotin, Igor Ya. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**
Ullery, William *see* **Hill, Paul, 99d:20008**

Items with secondary classifications in 20C07

Evans, Martin J. Relation modules of infinite groups. **99k:20063**
Furukawa, Tôru A remark on torsion-free subgroups in group rings. **99k:16057**
Hill, Paul (*with* Ullery, William) The balanced-projective dimension of units in commutative modular group algebras. (English summary) **99h:16047**
Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Zassenhaus conjectures for infinite groups. (English summary) **99c:16024**
Passman, Donald S. Semiprimitivity of group algebras: past results and recent progress. (English summary) **99a:16020**
Przytycki, Józef H. (*with* Sikora, Adam S.) Skein algebra of a group. **99e:57019**
Sehgal, Sudarshan K. *see* **Marciniak, Zbigniew S., 99c:16024**
Sikora, Adam S. *see* **Przytycki, Józef H., 99e:57019**
Strojnowski, Andrzej On residually finite groups and their generalizations. (English summary) **99k:20059**
Ullery, William *see* **Hill, Paul, 99h:16047**
Wauters, Paul Primitive localizations of group algebras of polycyclic-by-finite groups. (English summary) **99m:16045**
Wiechecki, Łukasz Finitely generated group ring units. (English summary) **99b:16045**

20C10 Integral representations of finite groups

Bleher, Frauke M. (*with* Geck, Meinolf; Kimmerle, Wolfgang) Automorphisms of generic Iwahori-Hecke algebras and integral group rings of finite Coxeter groups. **99f:20010**
— Integral group rings of finite groups of Lie type. **99i:20011**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Localizations of Grothendieck groups and Galois structure. (English summary) **99i:20012**
Erez, Boas *see* **Chinburg, Ted; et al., 99i:20012**
Fan, Yun Twisted Y-group algebras of finite groups. (English summary) **99g:20018**
Geck, Meinolf *see* **Bleher, Frauke M.; et al., 99f:20010**
Kang, Ming-chang Integral representations of cyclic groups of order p^2. (English summary) **99j:20006**
Kimmerle, Wolfgang *see* **Bleher, Frauke M.; et al., 99f:20010**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99i:20012**
Scharlau, Rudolf (*with* Tiep, Pham Huu) Symplectic group lattices. (English summary) **99k:20010**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 99i:20012**
Tiep, Pham Huu *see* **Scharlau, Rudolf, 99k:20010**
Wang, Xiangyong Characters of permutation summands. (English summary) **99g:20019**
Wilson, S. M. J. Equivalence of factorizability theories. (English summary) **99e:20008**

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Hindman, Peter (*with* Klingler, Lee; Odenthal, Charles J.) On the Krull-Schmidt-Azumaya theorem for integral group rings. (English summary) **99i:16012**
Huppert, Bertram ★ Character theory of finite groups. **99j:20011**
Klingler, Lee *see* **Hindman, Peter; et al., 99i:16012**
Lo, Eddie H. A polycyclic quotient algorithm. (English summary) **99c:20040**
López-Bautista, Pedro Ricardo (*with* Villa-Salvador, Gabriel Daniel) Integral representation of p-class groups in $\mathbf{Z}_p$-extensions and the Jacobian variety. (English summary) **99k:11173**
Odenthal, Charles J. *see* **Hindman, Peter; et al., 99i:16012**
Plesken, Wilhelm Presentations and representations of groups. **99k:20065**
Villa-Salvador, Gabriel Daniel *see* **López-Bautista, Pedro Ricardo, 99k:11173**

20C11 p-adic representations of finite groups

Malinin, D. A. Integral representations of p-groups of a given class of nilpotency over local fields. (Russian. Russian summary) **99d:20009**

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Barker, Laurence Defects of irreducible characters of p-soluble groups. (English summary) **99b:20014**
Elder, Gove Griffith Corrigendum: "Galois module structure of ideals in wildly ramified cyclic extensions of degree p^2" [Ann. Inst. Fourier (Grenoble) **45** (1995), no. 3, 625–647; MR 96d:11125]. **99c:11145**
Nebe, Gabriele The group ring of $SL_2(p^2)$ over the p-adic integers. (English summary) **99k:20102**

20C12 Integral representations of infinite groups

Gupta, Narain Lectures on dimension subgroups. **99c:20004**
Saito, Kyoji Character variety of representations of a finitely generated group in SL_2. **99k:20011**

Items with secondary classifications in 20C12

Plesken, Wilhelm Finite rational matrix groups: a survey. (English summary) **99h:20083**

20C15 Ordinary representations and characters

Abboud, Elias Exploring the structure of a finite group given an equation in its irreducible characters. (English summary) **99f:20011**
Armeanu, Ion Groups whose all irreducible characters are rationally valued on the 2-elements. (English summary) **99i:20013**
— 2-nilpotent groups having a primitive irreducible character. (English summary)
— About a question concerning Q-groups. (English summary) **99k:20012**
Balmaceda, Jose Maria P. Multiplicity-free groups and Terwilliger algebras. (English summary) (*see* **99g:00046**)
Benjamin, Diane A bound for $|G\colon O_p(G)|_p$ in terms of the largest irreducible character degree of a finite p-solvable group G. (English summary) **99c:20005**
Berkovich, Ya. G. (*with* Zhmud′, E. M.) ★ Characters of finite groups. Part 2. (English summary) **99j:20007**
Boltje, Robert Canonical induction formulae and the defect of a character. (English summary) **99b:20009**
— A general theory of canonical induction formulae. (English summary) **99k:20013**
Can, Himmet Representations of the imprimitive complex reflection groups $G(m, 1, n)$. **99e:20009**
— On the perfect systems of the Specht modules of the Weyl groups of type C_n. (English summary) **99j:20008**
Chigira, Naoki (*with* Iiyori, Nobuo) Prime graphs and Brauer characters. **99j:20009**
Chillag, David (*with* Mann, Avinoam) Nearly odd-order and nearly real finite groups. (English summary) **99d:20010**
— On zeroes of characters of finite groups. (English summary) **99f:20012**
Corrádi, Keresztély (*with* Héthelyi, László) On a theorem of Broline. **99j:20010**
Damnjanović, M. *see* **Milošević, I.; et al., 99d:20012**
Feit, Walter Integral representations of Weyl groups rationally equivalent to the reflection representation. **99g:20020**
Gagola, Stephen M., Jr. A note on the non-existence of regular bases for finite groups.
— (*with* Lewis, Mark L.) Squares of characters that are the sum of all irreducible characters. **99h:20007**
Gatermann, Karin Semi-invariants, equivariants and algorithms. (English summary) **99b:20010**
Gyoja, Akihiko (*with* Nishiyama, Kyo; Shimura, Hiroyuki) Invariants for representations of Weyl groups and two-sided cells. (English summary) **99m:20006**
Héthelyi, László *see* **Corrádi, Keresztély, 99j:20010**
Hoehnke, Hans-Jürgen Invariants of algebras and finite groups. (English summary) (*see* **99e:00015**)
Huang, Jian Hua[1] (*with* Wang, Xiao Li) On the structure of finite group modules. (Chinese. English and Chinese summaries) **99e:20010**
Huppert, Bertram ★ Character theory of finite groups. **99j:20011**
Iiyori, Nobuo *see* **Chigira, Naoki, 99j:20009**
Isaacs, I. M. (*with* Karagueuzian, Dikran) Conjugacy in groups of upper triangular matrices. (English summary) **99b:20011**
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Johnson, Kenneth W. (*with* Poimenidou, Eirini) Generalised classes in groups and association schemes: duals of results on characters and sharpness. (English summary) **99k:20014**
Karagueuzian, Dikran *see* **Isaacs, I. M., 99b:20011** *and* **99g:20021**
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Lam, T. Y. A theorem of Burnside on matrix rings. **99e:20011**
Leitz, Manfred Casimir-Operator und ein Satz von Reynolds über Charaktergrade. (English summary) [The Casimir operator and a theorem of Reynolds on character degrees] **99j:20012**
Lewis, Mark L. Derived lengths of solvable groups satisfying the one-prime hypothesis. **99d:20011**
— Irreducible character degree sets of solvable groups. **99e:20012a**
— Determining group structure from sets of irreducible character degrees. **99e:20012b**
— *see also* **Gagola, Stephen M., Jr., 99h:20007**
Liebeck, Martin W. Regular orbits and the $k(GV)$-problem. (English summary) **99h:20008**
Magid, Andy R. Lower bounds for dimensions of representation varieties. (English summary) **99a:20004**
Malle, Gunter Almost irreducible tensor squares. (English summary) **99m:20007**
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Marjoram, Martin Irreducible characters of a Sylow p-subgroup of the orthogonal group. **99k:20015**

Mateĭko, O. M. (*with* Tavgen′, O. I.) Linear representations of the automorphism groups of free groups. (Russian. English summary) **99k:20016**
— (*with* Tavgen′, O. I.) Linear representations of degrees 2 and 3 of the automorphism group of a free group of rank 2. (Russian. English and Russian summaries) **99c:20006**
Milošević, I. (*with* Nikolić, B.; Damnjanović, M.; Krčmar, M.) Irreducible representations of diperiodic groups. (English summary) **99d:20012**
Navarro, Gabriel (*with* Sanus, Lucia) Partial characters with respect to a normal subgroup. (English summary) **99j:20013**
Nikolić, B. *see* **Milošević, I.; et al., 99d:20012**
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Nwabueze, K. K. Certain applications of the Burnside rings and ghost rings in the representation theory of finite groups. I. **99c:20007**
Oda, Fumihito Primitive idempotents of the Grothendieck ring of Mackey functors. (English summary) **99g:20022**
Plesken, Wilhelm (*with* Souvignier, B.) Analysing finitely presented groups by constructing representations. (English summary) **99h:20009**
— (*with* Souvignier, B.) Constructing representations of finite groups and applications to finitely presented groups. **99d:20013**
Poimenidou, Eirini *see* **Johnson, Kenneth W., 99k:20014**
Poirier, Stéphane Cycle type and descent set in wreath products. (English summary) **99i:20014**
Puin, Christopher Character correspondences and subgroups of operator groups. (English summary) **99g:20023**
Riese, Udo A subnormality criterion in finite groups related to character degrees. **99a:20005**
— (*with* Schmid, Peter Paul) Characters induced from Sylow subgroups. **99e:20013**
Robinson, Geoffrey R. Twisted tensor induction. **99b:20012**
— A bound on norms of generalized characters with applications. **99m:20008**
Rosenbaum, Kurt Induced symplectic modules. (Russian) **99e:20014**
Samsonadze, G. T. On the ZD-class of representations of groups. (Georgian. English and Russian summaries)
Sangroniz, Josu Conjugacy classes and characters in some quotients of the Nottingham group. **99k:20017**
Sanus, Lucia *see* **Navarro, Gabriel, 99j:20013**
Schmid, Peter Paul *see* **Riese, Udo, 99e:20013**
Shahabi Shojaei, M. A. *see* **Shahryari, M.**
Shahryari, M. (*with* Shahabi Shojaei, M. A.) On a permutation character of S_m. (English summary)
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(Shumyatskiĭ, P. V.) *see* **Berkovich, Ya. G., 99j:20007**
Souvignier, B. *see* **Plesken, Wilhelm, 99d:20013** *and* **99h:20009**
Tanabe, Kenichiro On the centralizer algebra of the unitary reflection group $G(m, p, n)$. (English summary) **99d:20014**
Tavgen′, O. I. *see* **Mateĭko, O. M., 99c:20006** *and* **99k:20016**
Wang, Xiao Li *see* **Huang, Jian Hua[1], 99e:20010**
Wang, Xin Jie The condition for equality of generalized symmetric tensors. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Xing Zhi**
Zhang, Jiping On a problem by Huppert. (English and Chinese summaries) **99j:20014**
Zhang, Xing Zhi (*with* Wang, Xin Jie) The conditions for validity of the polynomial identities $d_M^H(AX) = d_M^H(XA)$. (Chinese. English and Chinese summaries)
Zhmud′, E. M. *see* **Berkovich, Ya. G., 99j:20007**
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An, Jianbei (*with* O'Brien, E. A.) A local strategy to decide the Alperin and Dade conjectures. (English summary) **99d:20015**
— The Alperin and Dade conjectures for Ree groups ${}^2F_4(q^2)$ in non-defining characteristics. (English summary) **99e:20017**
Bermúdez Sosa, Juana E. G-representations of dicyclic and dihedral groups. (Spanish. Spanish summary) **99m:20157**
Bessenrodt, Christine Algebra and combinatorics. **99f:20018**
Bleher, Frauke M. (*with* Geck, Meinolf; Kimmerle, Wolfgang) Automorphisms of generic Iwahori-Hecke algebras and integral group rings of finite Coxeter groups. **99f:20010**
Breuer, Thomas (*with* Pfeiffer, Götz) Finding possible permutation characters. (English summary) **99e:20005**
(Burnside, William) *see* **Lam, T. Y., 99e:01018b**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Localizations of Grothendieck groups and Galois structure. (English summary) **99i:20012**
Cooper, David L. *see* **Friis-Jensen, Britt; et al., 99j:81209**
Darafsheh, M. R. On the p-Steinberg characters of some finite simple groups. (English summary) **99j:20018**
— (*with* Pournaki, M. R.) On the dimensions of cyclic symmetry classes of tensors. (English summary) **99g:15040**
Erez, Boas *see* **Chinburg, Ted; et al., 99i:20012**
Friis-Jensen, Britt (*with* Cooper, David L.; Rettrup, Sten) Normalization of projected spin eigenfunctions. (English summary) **99j:81209**
Ganief, Shahiem (*with* Moori, Jamshid) Generating pairs for the Conway groups Co_2 and Co_3. (English summary) **99f:20025**
Geck, Meinolf *see* **Bleher, Frauke M.; et al., 99f:20010**
Griess, Robert L., Jr. (*with* Ryba, A. J. E.) Finite simple groups which projectively embed in an exceptional Lie group are classified! (English summary) **99g:20085**
Guilfoyle, Sean (*with* Stöhr, Ralph) Invariant bases for free Lie algebras. **99g:17012**
Hassan, Nabila Mohamed (*with* Horváth, Erzsébet) Some remarks on Dade's conjecture. (English summary) **99h:20010**
Higgs, R. J. Projective characters of odd degree. **99f:20017**
— On projective characters of the same degree. **99k:20024**
Horváth, Erzsébet *see* **Hassan, Nabila Mohamed, 99h:20010**
Jones, Gareth A. Characters and surfaces: a survey. (English summary) **99j:20056**
Kemper, Gregor Lower degree bounds for modular invariants and a question of I. Hughes. (English summary) **99f:13004**
Khriptun, M. D. Group-theoretic relationships between a generalization of Bessel functions and other special functions. (Russian) (*see* **99a:00019**)
Kimmerle, Wolfgang On the characterization of finite groups by characters. (English summary) **99g:20016**
— *see also* **Bleher, Frauke M.; et al., 99f:20010**
Klingen, Norbert ★ Arithmetical similarities. **99k:11163**
Koppinen, M. On dualization of double Frobenius algebras. (English summary) **99i:16039**
Lam, T. Y. Representations of finite groups: a hundred years. I. **99e:01018a**
— Representations of finite groups: a hundred years. II. **99e:01018b**
Liebeck, Martin W. (*with* Pyber, László) Upper bounds for the number of conjugacy classes of a finite group. (English summary) **99c:20023**
Lochak, Pierre (*with* Schneps, Leila) The universal Ptolemy-Teichmüller groupoid. (English summary) **99i:20052**
Michelacakis, N. J. Projective flat manifolds of cyclic and dihedral holonomy. (English summary) **99g:14057**
Moori, Jamshid *see* **Ganief, Shahiem, 99f:20025**
Navarro, Gabriel (*with* Wolf, Thomas R.) Character degrees and local subgroups of π-separable groups. (English summary) **99a:20021**
O'Brien, E. A. *see* **An, Jianbei, 99d:20015**
Özaydin, Murad (*with* Przebinda, Tomasz) Platonic orthonormal wavelets. (English summary) **99c:42071**
Pappas, Georgios *see* **Chinburg, Ted; et al., 99i:20012**
Pfeiffer, Götz *see* **Breuer, Thomas, 99e:20005**
Pournaki, M. R. *see* **Darafsheh, M. R., 99g:15040**
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Ryba, A. J. E. *see* **Griess, Robert L., Jr., 99g:20085**
Scharlau, Rudolf (*with* Tiep, Pham Huu) Symplectic group lattices. (English summary) **99k:20010**
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Shalev, Aner Finite groups and almost free actions. (English summary) **99g:20013**
Shoji, Toshiaki (*with* Srinivasan, Bhama) Averages of Green functions of classical groups. (English summary) **99f:20082**
Srinivasan, Bhama *see* **Shoji, Toshiaki, 99f:20082**
Stöhr, Ralph *see* **Guilfoyle, Sean, 99g:17012**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 99i:20012**
Tiep, Pham Huu *see* **Scharlau, Rudolf, 99k:20010**
Uno, Katsuhiro Cases of Dade's conjecture. **99b:20021**
Volf, Aurelian Claudiu Sur une conjecture de Deligne et Henniart sur les constantes locales d'équations fonctionnelles des fonctions L. [On a conjecture of Deligne and Henniart about the local constants of functional equations of L-functions] **99i:11108**
Voskresenskaya, G. V. Modular forms and representations of dihedral groups. (Russian) **99e:11052**
Wang, Xiangyong Characters of permutation summands. (English summary) **99g:20019**
Wolf, Thomas R. *see* **Navarro, Gabriel, 99a:20021**
Zhu, De Gao The automorphism group and the holomorph of the dihedral group D_{2^n}. (Chinese. English and Chinese summaries) **99i:20035**

20C20 Modular representations and characters

An, Jianbei (*with* O'Brien, E. A.) A local strategy to decide the Alperin and Dade conjectures. (English summary) **99d:20015**
Barker, Laurence The number of blocks with a given defect group. (English summary) **99b:20013**
— On p-soluble groups and the number of simple modules associated with a given Brauer pair. **99f:20013**
— Defects of irreducible characters of p-soluble groups. (English summary) **99b:20014**
Benson, David John Infinite-dimensional modules for a finite group. **99k:20018**
— (*with* Wheeler, Wayne W.) Direct sum decompositions of infinitely generated modules. (English summary) **99m:20009**
Bessenrodt, Christine (*with* Olsson, J. B.) Branching of modular representations of the alternating groups. (English summary) **99j:20015**
Boltje, Robert Linear source modules and trivial source modules. (English summary) **99d:20016**
Bouc, Serge Résolutions de foncteurs de Mackey. (English summary) [Resolutions of Mackey functors] **99b:20015**
Cao, Jing Long *see* **Shi, Sheng Ming, 99f:20016**
Carlson, Jon F. (*with* Wheeler, Wayne W.) Homomorphisms in higher complexity quotient categories. (English summary) **99k:20019**
Collins, Michael John Blocks, normal subgroups, and Brauer's third main theorem. **99m:20010**
Dade, Everett C. Counting characters in blocks. II.9. **99b:20016**
Ellers, H. The defect groups of a clique. **99b:20017**
Fottner, Hubert Lifting induction theorems. (English summary) **99m:20011**
Geck, Meinolf Kazhdan-Lusztig cells and decomposition numbers. (English summary) **99e:20015**
Gnacadja, Gilles Ph. Phantom maps in the stable module category. (English summary) **99k:20020**
Gomi, Yasushi Semisimplicity of parabolic Hecke algebras. (English summary) **99e:20016**
Hassan, Nabila Mohamed (*with* Horváth, Erzsébet) Some remarks on Dade's conjecture. (English summary) **99h:20010**
Herz, J.-C. Caractérisation des caractères des groupes finis (d'après R. Brauer). [Characterization of the characters of finite groups (after R. Brauer)] (*see* **99f:00034**)
Hieda, Yoshimasa (*with* Tsushima, Yukio) On $S_R(H)$-blocks for finite groups. **99d:20017**
Hiss, Gerhard Harish-Chandra theory, q-Schur algebras, and decomposition matrices for finite classical groups. (English summary) **99i:20015**
Horváth, Erzsébet *see* **Hassan, Nabila Mohamed, 99h:20010**

Hu, Lei (*with* Shi, Sheng Ming) The finite groups of order p^2q with p-blocks of defect 0. **99m:20012**
Huang, G. On extended block induction and Brauer's third main theorem. **99b:20018**
Keller, Thomas Michael Orbit sizes and character degrees. (English summary) **99m:20013**
Kessar, Radha On blocks and source algebras for the double covers of the symmetric groups. **99a:20006**
Krasner, Marc Les travaux récents de R. Brauer en théorie des groupes. [The recent works of R. Brauer in group theory] (*see* **99f:00033**)
Linckelmann, Markus On derived equivalences and local structure of blocks of finite groups. (English summary) **99k:20021**
Mathas, Andrew Simple modules of Ariki-Koike algebras. (English summary) **99d:20018**
Murai, Masafumi Blocks of factor groups and heights of characters. **99k:20022**
O'Brien, E. A. *see* **An, Jianbei, 99d:20015**
Oda, Fumihito On defect groups of the Mackey algebras for finite groups. (English summary) **99b:20019**
Olsson, J. B. *see* **Bessenrodt, Christine, 99j:20015**
Rickard, Jeremy Some recent advances in modular representation theory. (English summary) **99h:20011**
— The abelian defect group conjecture. (English summary) **99f:20014**
Robinson, Geoffrey R. Some open conjectures on representation theory. **99c:20008**
— Further consequences of conjectures like Alperin's. **99b:20020**
Schaps, Mary (*with* Shapira, Dana; Shlomo, Orly) Quivers of blocks with normal defect group. (English summary) **99f:20015**
Serre, Jean-Pierre Le théorème de Brauer sur les caractères. [The Brauer character theorem] (*see* **99f:00035**)
Shapira, Dana *see* **Schaps, Mary; et al., 99f:20015**
Shi, Sheng Ming (*with* Cao, Jing Long) A generalization of Brauer's Problem 24. (Chinese. English and Chinese summaries) **99f:20016**
— *see also* **Hu, Lei, 99m:20012**
Shlomo, Orly *see* **Schaps, Mary; et al., 99f:20015**
Skowroński, Andrzej (*with* Zwara, Grzegorz) Degenerations for modules over blocks of group algebras. (English summary) **99j:20016**
Tsushima, Yukio *see* **Hieda, Yoshimasa, 99d:20017**
Uno, Katsuhiro Cases of Dade's conjecture. **99b:20021**
Wheeler, Wayne W. *see* **Carlson, Jon F., 99k:20019** *and* **Benson, David John, 99m:20009**
Zeng, Ji Wen The problem of the Alperin conjecture for a block with a TI defect group. (Chinese. Chinese summary) **99k:20023**
Zwara, Grzegorz *see* **Skowroński, Andrzej, 99j:20016**

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Barker, Laurence Alperin's fusion theorem and G-posets. (English summary) **99k:20044**
Benson, David John Complexity and varieties for infinite groups. I, II. (English summary) **99a:20054**
Bessenrodt, Christine Algebra and combinatorics. **99f:20018**
Boltje, Robert Canonical induction formulae and the defect of a character. (English summary) **99b:20009**
— A general theory of canonical induction formulae. (English summary) **99k:20013**
Bremke, Kirsten (*with* Malle, Gunter) Reduced words and a length function for $G(e, 1, n)$. (English summary) **99d:20062**
Brundan, Jonathan Lowering operators for $\mathrm{GL}(n)$ and quantum $\mathrm{GL}(n)$. (English summary) **99c:20058**
— (*with* Kleshchev, Alexander S.; Suprunenko, Irina D.) Semisimple restrictions from $\mathrm{GL}(n)$ to $\mathrm{GL}(n-1)$. (English summary) **99h:20069**
Chigira, Naoki (*with* Iiyori, Nobuo) Prime graphs and Brauer characters. **99j:20009**
Cooperman, Gene (*with* Hiss, Gerhard; Lux, Klaus; Müller, Jürgen[4]) The Brauer tree of the principal 19-block of the sporadic simple Thompson group. (English summary) **99b:20026**
Cox, Anton The blocks of the q-Schur algebra. **99k:16078**
Dipper, Richard (*with* Du, Jie) Harish-Chandra vertices and Steinberg's tensor product theorems for finite general linear groups. **99a:20010**
Du, Jie *see* **Dipper, Richard, 99a:20010**
Gluck, David (*with* Magaard, Kay) Cross-characteristic character and fixed point space ratios for groups of Lie type. **99j:20019**
Gow, Rod (*with* Willems, Wolfgang) On the quadratic type of some simple self-dual modules over fields of characteristic two. **99f:20019**
Hicks, Katrina The Loewy structure and basic algebra structure for some three-dimensional projective special unitary groups in characteristic 3. **99f:20020**
Hiss, Gerhard *see* **Cooperman, Gene; et al., 99b:20026**
Humphreys, John Branching rules for modular projective representations of the symmetric groups. (English summary) **99k:20025**
Iiyori, Nobuo *see* **Chigira, Naoki, 99j:20009**
Jansen, Christoph (*with* Wilson, Robert A.) The 2-modular and 3-modular decomposition numbers for the sporadic simple O'Nan group and its triple cover. (English summary) **99g:20025**
Kleshchev, Alexander S. Branching rules for modular representations of symmetric groups. IV. **99d:20019**
— *see also* **Brundan, Jonathan; et al., 99h:20069**
Leclerc, Bernard (*with* Thibon, Jean-Yves) q-deformed Fock spaces and modular representations of spin symmetric groups. (English summary) **99c:17029**
Lux, Klaus *see* **Cooperman, Gene; et al., 99b:20026**
Magaard, Kay *see* **Gluck, David, 99j:20019**
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Marcus, Andrei Group-graded algebras, adjoint functors and the Green correspondence. (English summary) **99b:16067**
Martin, Stuart (*with* Russell, Lee) Defect 3 blocks of symmetric group algebras. **99k:20028**
McNinch, George J. Dimensional criteria for semisimplicity of representations. **99b:20076**
Müller, Jürgen[4] *see* **Cooperman, Gene; et al., 99b:20026**
Nebe, Gabriele The group ring of $\mathrm{SL}_2(p^2)$ over the p-adic integers. (English summary) **99k:20102**
Okuyama, Tetsuro (*with* Waki, Katsushi) Decomposition numbers of $\mathrm{Sp}(4, q)$. **99b:20025**
Plesken, Wilhelm (*with* Souvignier, B.) Analysing finitely presented groups by constructing representations. (English summary) **99h:20009**
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Ton That Tri The irreducible modular representations of parabolic subgroups of general linear groups. (English summary) **99b:20079**
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Wiedorn, Corinna On the 833-dimensional irreducible representation of the group $F_4(2)$. **99e:20018**
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Wilson, Robert A. *see* **Jansen, Christoph, 99g:20025**

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Higgs, R. J. Projective characters of odd degree. **99f:20017**
— On projective characters of the same degree. **99k:20024**
Humphreys, John Branching rules for modular projective representations of the symmetric groups. (English summary) **99k:20025**
Matelko, O. M. Linear two-dimensional representations of the free product of two finite cyclic groups. (Russian. English and Russian summaries) **99b:20022**
Munir, M. (*with* Saleem, Muhammad) The projective characters of the hyperoctahedral group. **99h:20012**
Opolka, Hans A note on rationality of representations of profinite groups. (English summary) **99h:20013**
Saleem, Muhammad *see* **Munir, M., 99h:20012**
Zheng, Zhiying Schur theory of crossed modules and projective semiunitary representations of groups. (*see* **99g:00046**)

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20C30 Representations of finite symmetric groups

Bauer, Thorsten On the automorphism group of Solomon's descent algebra. **99i:20016**
Bessenrodt, Christine Algebra and combinatorics. **99f:20018**
Doran, William F., IV On Foulkes' conjecture. (English summary) **99h:20014**
Erdmann, Karin Representations of $\mathrm{GL}_n(K)$ and symmetric groups. **99b:20023**
Fiedler, Bernd An algorithm for the decomposition of ideals of the group ring of a symmetric group. (English summary) **99b:20024**
Foda, Omar (*with* Leclerc, Bernard; Okado, Masato; Thibon, Jean-Yves; Welsh, Trevor A.) RSOS models and Jantzen-Seitz representations of Hecke algebras at roots of unity. (English summary) **99a:20007**
Gonzalez-Lorca, Jorge Structure des algèbres de Hecke de type A: un isomorphisme explicite. (English and French summaries) [Structure of the Hecke algebra of type A: an explicit isomorphism] **99k:20026**
Hanlon, Philip J. (*with* Stanley, Richard P.) A q-deformation of a trivial symmetric group action. (English summary) **99a:20008**
Härterich, Martin Murphy bases of generalized Temperley-Lieb algebras. (English summary) **99m:20014**
James, Gordon Symmetric groups and Schur algebras. (English summary) **99k:20027**
Jones, Andrew R. The structure of the Young symmetrizers for spin representations of the symmetric group. I. (English summary) **99j:20017**
Kleshchev, Alexander S. Branching rules for symmetric groups and applications. **99m:20015**
— Branching rules for modular representations of symmetric groups. IV. **99d:20019**
Lascoux, Alain Ordonner le groupe symétrique: pourquoi utiliser l'algèbre de Iwahori-Hecke? (English summary) [Why use the Iwahori-Hecke algebra to order the symmetric group?] **99m:20016**
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Maslen, David K. The efficient computation of Fourier transforms on the symmetric group. (English summary) **99a:20009**
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Beckner, William (*with* Regev, Amitai) Asymptotic estimates using probability. (English summary) **99j:05011**
Bessenrodt, Christine (*with* Olsson, J. B.) Branching of modular representations of the alternating groups. (English summary) **99j:20015**
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Donkin, Stephen (*with* Erdmann, Karin) Tilting modules, symmetric functions, and the module structure of the free Lie algebra. **99e:20056**
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Goodman, Roe (*with* Wallach, Nolan R.) ★ Representations and invariants of the classical groups. (English summary) **99b:20073**
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Krob, Daniel (*with* Thibon, Jean-Yves) Noncommutative symmetric functions. IV. Quantum linear groups and Hecke algebras at $q = 0$. (English summary) **99c:05196**
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Olsson, J. B. *see* **Bessenrodt, Christine, 99j:20015**
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Ram, Arun An elementary proof of Roichman's rule for irreducible characters of Iwahori-Hecke algebras of type A. **99h:05124**
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— *see also* **Beckner, William, 99j:05011**
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Scarabotti, Fabio Radon transforms on the symmetric group and harmonic analysis of a class of invariant Laplacians. (English summary) **99k:44005**
Scott, Leonard L. Linear and nonlinear group actions, and the Newton Institute program. **99k:20029**
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Darafsheh, M. R. On the p-Steinberg characters of some finite simple groups. (English summary) **99j:20018**
Deriziotis, D. I. (*with* Gotsis, C. P.) The cuspidal modules of the finite general linear groups. (English summary) **99i:20017**
Dipper, Richard (*with* Du, Jie) Harish-Chandra vertices and Steinberg's tensor product theorems for finite general linear groups. **99a:20010**
Du, Jie *see* **Dipper, Richard, 99a:20010**
Gluck, David (*with* Magaard, Kay) Cross-characteristic character and fixed point space ratios for groups of Lie type. **99j:20019**
Gotsis, C. P. *see* **Deriziotis, D. I., 99i:20017**
Gow, Rod (*with* Willems, Wolfgang) On the quadratic type of some simple self-dual modules over fields of characteristic two. **99f:20019**
Green, R. M. Cellular algebras arising from Hecke algebras of type H_n. (English summary) **99j:20020**
Hicks, Katrina The Loewy structure and basic algebra structure for some three-dimensional projective special unitary groups in characteristic 3. **99f:20020**
Magaard, Kay (*with* Malle, Gunter) Irreducibility of alternating and symmetric squares. (English summary) **99a:20011**
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Okuyama, Tetsuro (*with* Waki, Katsushi) Decomposition numbers of $\mathrm{Sp}(4, q)$. **99b:20025**
Rainbolt, Julianne G. The generalized Gelfand-Graev representations of $\mathrm{U}(3, q)$. (English summary) **99f:20021**
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Wiedorn, Corinna On the 833-dimensional irreducible representation of the group $F_4(2)$. **99e:20018**
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Jabbar, Abdul Orbits of $(2, 3)$ pairs in $\mathrm{PSL}_2(q)$. **99f:20022**
Lawther, Ross Ian The action of $F_4(q)$ on cosets of $B_4(q)$. (English summary) **99m:20022**
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— *see also* **Cohen, Arjeh Marcel; et al., 99i:20063**
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Tiep, Pham Huu (*with* Zalesskiĭ, Aleksandr E.) Some characterizations of the Weil representations of the symplectic and unitary groups. (English summary) **99d:20074**
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Cooperman, Gene (*with* Hiss, Gerhard; Lux, Klaus; Müller, Jürgen[4]) The Brauer tree of the principal 19-block of the sporadic simple Thompson group. (English summary) **99b:20026**
Hiss, Gerhard *see* **Cooperman, Gene; et al., 99b:20026**
Jansen, Christoph (*with* Wilson, Robert A.) The 2-modular and 3-modular decomposition numbers for the sporadic simple O'Nan group and its triple cover. (English summary) **99g:20025**
Linton, Stephen (*with* Parker, Richard A.; Walsh, Peter; Wilson, Robert A.) Computer construction of the Monster. **99k:20030**
Lux, Klaus *see* **Cooperman, Gene; et al., 99b:20026**
Müller, Jürgen[4] *see* **Cooperman, Gene; et al., 99b:20026**
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Walsh, Peter *see* **Linton, Stephen; et al., 99k:20030**
Wilson, Robert A. An atlas of sporadic group representations. (English summary) **99h:20015**
— The McKay conjecture is true for the sporadic simple groups. (English summary) **99h:20016**
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Lux, Klaus (*with* Wiegelmann, Markus) Condensing tensor product modules. (English summary) **99i:20018**
Magaard, Kay (*with* Malle, Gunter) Irreducibility of alternating and symmetric squares. (English summary) **99a:20011**
Malle, Gunter *see* **Magaard, Kay, 99a:20011**
Suleiman, Ibrahim A. I. (*with* Wilson, Robert A.) Construction of exceptional covers of generic groups. (English summary) **99g:20031**
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Wilson, Robert A. *see* **Suleiman, Ibrahim A. I., 99g:20031**

20C35 Applications of group representations to physics

Fa, Wei (*with* Pang, Hou Rong; Ping, Jia Lun) Algebraic expressions for irreducible representations of the point-group D_{6h}. (Chinese. English and Chinese summaries)
Jones, H. F. ★ Groups, representations and physics. (English summary) **99d:20020**
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Bazeia, D. (*with* Jackiw, R.) Nonlinear realization of a dynamical Poincaré symmetry by a field-dependent diffeomorphism. (English summary) **99m:81128**
Chen, Jin-Quan (*with* Fan, Peng-Dong) Algebraic solutions for point groups: the tetrahedral group for the group chain $T \supset C_3$. (English summary) **99a:81053**
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Flude, James P. M. The Edmonds asymptotic formulas for the $3j$ and $6j$ symbols. (English summary) **99h:81064**
Fuchs, Jürgen (*with* Ganchev, A. Ch.; Szlachányi, Kornél; Vecsernyés, P.) S_4 symmetry of $6j$ symbols and Frobenius-Schur indicators in rigid monoidal C^* categories. (English summary) **99k:81111**
Ganchev, A. Ch. *see* **Fuchs, Jürgen; et al., 99k:81111**
Hamilton, Jeffrey John Hypercomplex numbers and the description of spin states. (English summary) **99c:81059**
Hou, Xi-Wen *see* **Dong, Shi-Hai; et al., 99f:81070**
Jackiw, R. *see* **Bazeia, D., 99m:81128**
Kramer, Peter (*with* Lorente, Miguel) Discrete and continuous symmetry via induction and duality. (English summary) **99j:81050**
— *see also* **Lorente, Miguel**, **99j:81051**
Krčmar, M. *see* **Milošević, I.; et al., 99d:20012**
Kuriyama, Atsushi (*with* da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) Modification of the conventional Holstein-Primakoff boson representation for the su(1, 1)-algebra and its classical counterpart. (English summary) **99m:81075**
Lorente, Miguel (*with* Kramer, Peter) Induced representation of the Poincaré group on the lattice: spin 1/2 and 1 case. (English summary) **99j:81051**
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Rosengren, Hjalmar On the triple sum formula for Wigner $9j$-symbols. (English summary) **99k:81084**
Segal, Irving (*with* Vogan, David A., Jr.; Zhou, Zhengfang) Spinor currents as vector particles. (English summary) **99h:81066**
Sorkin, Rafael D. (*with* Surya, Sumati) An analysis of the representations of the mapping class group of a multigeon three-manifold. (English summary) **99h:83047**
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20C40 Computational methods

Geck, Meinolf (*with* Hiss, Gerhard; Lübeck, Frank; Malle, Gunter; Pfeiffer, Götz) CHEVIE—a system for computing and processing generic character tables. (English summary) **99m:20017**
Hiss, Gerhard *see* **Geck, Meinolf; et al., 99m:20017**
Lin, Meng Hai *see* **Song, Ling Chun; et al., 99h:20017**
Lübeck, Frank *see* **Geck, Meinolf; et al., 99m:20017**
Lux, Klaus (*with* Wiegelmann, Markus) Condensing tensor product modules. (English summary) **99i:20018**
Malle, Gunter *see* **Geck, Meinolf; et al., 99m:20017**
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Song, Ling Chun (*with* Wu, Wei[3]; Lin, Meng Hai; Zhang, Qian Er) Program implementation of a new algorithm for computing matrices of standard orthogonal irreducible representations of symmetric groups. (Chinese. English and Chinese summaries) **99h:20017**
Wiegelmann, Markus *see* **Lux, Klaus**, **99i:20018**
Wu, Wei[3] *see* **Song, Ling Chun; et al., 99h:20017**
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Breuer, Thomas (*with* Pfeiffer, Götz) Finding possible permutation characters. (English summary) **99e:20005**
Celler, F. (*with* Leedham-Green, Charles) A constructive recognition algorithm for the special linear group. (English summary) **99g:20001**
Cooperman, Gene (*with* Hiss, Gerhard; Lux, Klaus; Müller, Jürgen[4]) The Brauer tree of the principal 19-block of the sporadic simple Thompson group. (English summary) **99b:20026**
Fiedler, Bernd An algorithm for the decomposition of ideals of the group ring of a symmetric group. (English summary) **99b:20024**
Hiss, Gerhard *see* **Cooperman, Gene; et al., 99b:20026**
Jansen, Christoph (*with* Wilson, Robert A.) The 2-modular and 3-modular decomposition numbers for the sporadic simple O'Nan group and its triple cover. (English summary) **99g:20025**
Leedham-Green, Charles *see* **Celler, F., 99g:20001**
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Lux, Klaus *see* **Cooperman, Gene; et al., 99b:20026**
Maslen, David K. The efficient computation of Fourier transforms on the symmetric group. (English summary) **99a:20009**
Michler, Gerhard O. (*with* Solberg, Øyvind) Testing modules of groups of even order for simplicity. (English summary) **99b:20008**
Müller, Jürgen[4] *see* **Cooperman, Gene; et al., 99b:20026**
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Pfeiffer, Götz *see* **Breuer, Thomas**, **99e:20005**
Plesken, Wilhelm Presentations and representations of groups. **99k:20065**
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Wilson, Robert A. An atlas of sporadic group representations. (English summary) **99h:20015**
— *see also* **Jansen, Christoph**, **99g:20025** *and* **Linton, Stephen; et al., 99k:20030**

20C99 None of the above, but in this section

Abdesselam, Boucif *see* **Katriel, Jacob; et al., (99f:82002)**
Blau, Harvey I. Degrees and diagrams of integral table algebras. **99b:20027**
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Chakrabarti, Amitabha[1] *see* **Katriel, Jacob; et al., (99f:82002)**
(Cram, G.-Martin) *see* **Slodowy, Peter**, **99e:20020**
Dipper, Richard (*with* James, Gordon; Mathas, Andrew) The (Q, q)-Schur algebra. **99e:20019**
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Hu, Jun[3] (*with* Wang, Jian-pan) Hecke algebras of type D_n at roots of unity. (English summary) **99k:20031**
James, Gordon *see* **Dipper, Richard; et al., 99e:20019**
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Lehrer, G. I. *see* **Graham, J. J., 99i:20019**
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Wang, Jian-pan *see* **Hu, Jun[3]**, **99k:20031**
Xu, Bangteng *see* **Blau, Harvey I., 99b:20028**

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Du, Jie (*with* Rui, Hebing) Based algebras and standard bases for quasi-hereditary algebras. (English summary) **99b:16027**
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20Dxx Abstract finite groups

Items with secondary classifications in 20Dxx

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Problems in algebra ★ Вопросы алгебры. Вып. 7. (Russian) [Problems in algebra. No. 7] **99g:20003**
— ★ Вопросы алгебры. Вып. 10. (Russian) [Problems in algebra. No. 10] **99g:20006**

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Aschbacher, Michael G. (*with* Smith, Stephen D.) Quasithin groups. (English summary) **99g:20027**
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Hayashi, Makoto[1] (*with* Tanaka, Yasuhiko) On the finite simple groups all of whose 2-local subgroups are solvable. **99k:20033**
Papadopoulos, Panagiotis Some amalgams of type $2A_6$ in a field of characteristic 3. (English summary) **99h:20018**

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Higgs, R. J. Projective characters of odd degree. **99f:20017**
Hu, Lei (*with* Shi, Sheng Ming) The finite groups of order p^2q with p-blocks of defect 0. **99m:20012**
Kantor, William M. Simple groups in computational group theory. (English summary) **99h:20002**
Liebeck, Martin W. (*with* Seitz, Gary M.) On the subgroup structure of exceptional groups of Lie type. **99j:20055**
Monakhov, V. S. Finite groups with supersolvable subgroups of even index. (Russian. English summary) **99j:20025**
Riese, Udo (*with* Schmid, Peter Paul) Characters induced from Sylow subgroups. **99e:20013**
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Baddeley, Robert W. (*with* Praeger, Cheryl E.) On classifying all full factorisations and multiple-factorisations of the finite almost simple groups. (English summary) **99h:20019**
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Borovik, A. V. On the number of maximal soluble subgroups of a finite group. **99k:20035**
Dieudonné, Jean Les groupes simples déduits des algèbres de Lie simples complexes. [Simple groups derived from complex simple Lie algebras] (*see* **99f:00037**)
Fleischmann, Peter (*with* Lempken, Wolfgang; Tiep, Pham Huu) The p-intersection subgroups in quasi-simple and almost simple finite groups. (English summary) **99j:20021**
Gao, Weidong On the number of subsequences with given sum. (English summary) **99j:20022**
Huang, Benwen The characterization of A_5. (English summary)
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Jabbar, Abdul Orbits of $(2, 3)$ pairs in $\mathrm{PSL}_2(q)$. **99f:20022**
Jamali, Ali-Reza The non-abelian simple groups G, $|G| < 10^6$, minimal C-generator pairs, symmetric presentations. (English summary) **99c:20012**
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Lawther, Ross Ian (*with* Liebeck, Martin W.) On the diameter of a Cayley graph of a simple group of Lie type based on a conjugacy class. **99k:20036**
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Bleher, Frauke M. Integral group rings of finite groups of Lie type. **99i:20011**
Buekenhout, Francis (*with* Dehon, Michel; Cara, Philippe) Geometries of small almost simple groups based on maximal subgroups. (English summary) **99c:51017**
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Darafsheh, M. R. On the p-Steinberg characters of some finite simple groups. (English summary) **99j:20018**
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Solomon, Louis An introduction to reductive monoids. **99h:20099**
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20D08 Simple groups: sporadic groups

Adan Bante, Edith Mathieu groups. (Spanish)
Chevalley, Claude Le groupe de Janko. [The Janko group] (*see* **99f:00042**)
Conway, John H. (*with* Simons, Christopher S.) Relations in M_{666}. (English summary) **99i:20020**
Coolsaet, K. A construction of the simple group of Rudvalis from the group $\mathrm{U}_3(5)$:2. (English summary) **99c:20013**
Curtis, Robert T. A survey of symmetric generation of sporadic simple groups. (English summary) **99m:20023**
Fukshansky, A. (*with* Stroth, Gernot) Semiclassical parabolic systems related to M_{24}. (English summary) **99d:20023**
Ganief, Shahiem (*with* Moori, Jamshid) Generating pairs for the Conway groups Co_2 and Co_3. (English summary) **99f:20025**
— (*with* Moori, Jamshid) 2-generations of the fourth Janko group J_4. (English summary) **99m:20024**
Gollan, Holger W. ★ A contribution to the revision project of the sporadic groups: Lyons' simple group Ly. **99g:20029**
Jabbar, Abdul $(2, 3, 7)$-subgroups of the Conway group Co_1. **99g:20030**
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Leemans, Dimitri The rank 2 geometries of the simple Suzuki groups $\mathrm{Sz}(q)$. (English summary) **99b:20030**
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Meixner, Thomas On Weiss' geometric characterization of the Rudvalis simple group. (English summary) **99c:20014**
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Norton, S. P. Anatomy of the Monster. I. (English summary) **99i:20021**
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Papadopoulos, Panagiotis Two amalgams related to the alternating group on six letters. (English summary) **99m:20025**
Richardson, Thomas M. Elementary abelian 3-subgroups of the Monster. (English summary) **99k:20037**
Sawabe, Masato 2-radical subgroups of the Conway simple group Co_1. **99k:20038**
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Suleiman, Ibrahim A. I. (*with* Wilson, Robert A.) Construction of exceptional covers of generic groups. (English summary) **99g:20031**
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Borcherds, Richard Ewen What is Moonshine? **99j:17001**
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Chermak, Andrew Quadratic action and the $\mathcal{P}(G, V)$-theorem in arbitrary characteristic. **99m:20062**
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Dong, Chongying (*with* Li, Hai Sheng; Mason, Geoffrey; Norton, S. P.) Associative subalgebras of the Griess algebra and related topics. **99k:17048**
(Ferrar, J.) *see* **Monster and Lie algebras, 99e:00021**
Gottschalk, Harald (*with* Leemans, Dimitri) The residually weakly primitive geometries of the Janko group J_1. (English summary) **99h:51014**

Griess, Robert L., Jr. A vertex operator algebra related to E_8 with automorphism group $O^+(10,2)$. (English summary) **99i:17030**
Guralnick, Robert M. (*with* Hoffman, Corneliu) The first cohomology group and generation of simple groups. (English summary) **99h:20087**
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Hayashi, Makoto[1] (*with* Tanaka, Yasuhiko) On the finite simple groups all of whose 2-local subgroups are solvable. **99k:20033**
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Huybrechts, Cécile (*with* Pasini, Antonio) A characterization of the Hall-Janko group J_2 by a $c.L^*$-geometry. (English summary) **99i:51011**
Jamali, Ali-Reza The non-abelian simple groups G, $|G| < 10^6$, minimal C-generator pairs, symmetric presentations. (English summary) **99c:20012**
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Li, Hai Sheng *see* **Dong, Chongying; et al., 99k:17048**
Linton, Stephen (*with* Parker, Richard A.; Walsh, Peter; Wilson, Robert A.) Computer construction of the Monster. **99k:20030**
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Mazurov, Viktor Danilovich (*with* Zenkov, V. I.) Intersections of Sylow subgroups in finite groups. (English summary) **99g:20036**
Milgram, R. James (*with* Overton, C.) The stable splitting of $B_{M_{12}}$ and related groups. **99m:55021**
— *see also* **Adem, Alejandro; et al., 99m:20128**
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Pushkin, A. V. "Monstrous Moonshine" and physics. (English summary) **99j:83058**
Rajan, C. S. Automorphisms of $X(11)$ over characteristic 3 and the Mathieu group M_{11}. (English summary) **99f:14027**
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Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Divisible designs admitting a Suzuki group as an automorphism group. (Italian summary) **99m:05041**
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Wilson, Robert A. An atlas of sporadic group representations. (English summary) **99h:20015**
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Monster ★ The Monster and Lie algebras. **99e:00021**
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20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

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Amberg, Bernhard (*with* Kazarin, Lev S.) On finite products of soluble groups. (English summary) **99m:20026**
Anis'kov, V. V. On irreducible p-solvable local formations with π-decomposable defect 2. (Russian. English summary) (*see* **99g:20004**)
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— On reducible local formations with given $\mathfrak{H}$-defect. (Russian. English and Russian summaries) **99i:20024**
Asaad, M. On maximal subgroups of Sylow subgroups of finite groups. **99k:20039**
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Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) σ-permutably embedded subgroups of finite soluble groups. (English summary) (*see* **99g:20005**)
— (*with* Shemetkov, Leonid Aleksandrovich) On lattices of p-local formations of finite groups. **99b:20032**
— (*with* Ezquerro Marín, Luis Miguel) On a theorem of Bryce and Cossey. (English summary) **99e:20021**
— (*with* Pérez-Ramos, M. D.) Some questions of the Kourovka notebook concerning formation products. **99h:20024**
— (*with* Bechtell, H.; Ezquerro Marín, Luis Miguel) On pre-Frattini residuals. **99k:20040**
— (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) Characterizations of Schunck classes of finite soluble groups. **99j:20024**
— (*with* Martínez-Pastor, A.; Pérez-Ramos, M. D.) A family of dominant Fitting classes of finite soluble groups. (English summary) **99a:20013**
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Belokon', L. M. Coradicals of subnormal subgroups of finite groups. (Russian. Russian summary) (*see* **99g:20002**)
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Bhattacharya, Prabir B. *see* **Mukherjee, N. P., 99a:20015**
Bliznets, I. V. (*with* Vorob'ev, N. N.) On direct decompositions of compositional formations. (Russian. English summary) (*see* **99g:20008**)
Brown, Ronald Paul (*with* Harrison, David K.) Abelian Frobenius kernels and modules over number rings. (English summary) **99h:20026**
Buzlanov, A. V. Finite solvable groups with given maximal subgroups. (Russian. Russian summary) (*see* **99g:20002**)
— Finite solvable groups with a normal maximal metanilpotent subgroup. (Russian. English summary) (*see* **99g:20004**)
Camina, A. R. (*with* Camina, R. D.) Implications of conjugacy class size. **99g:20033**
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Chen, Zhongmu π-Frattini subgroup and π-local formation. (English and Chinese summaries) **99h:20027**
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— Dualpronormality and Fitting classes. **99c:20016**
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Dzharadin, Dzhekhad Minimal p-saturated nonnilpotent formations. (Russian. English summary) (*see* **99g:20004**)
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Jamali, Ali-Reza On some finite soluble groups with zero deficiency. (English summary) **99m:20029**
Kamornikov, S. F. A remark on the $\mathfrak{F}$-length of a finite solvable group. (Russian. English summary) (*see* **99g:20003**)
— $\mathfrak{F}$-reachability in factorizable groups. (Russian. English summary) (*see* **99g:20004**)
— (*with* Sel'kin, M. V.) On a property of $\mathfrak{F}$-attainable subgroups. (Russian. English summary) **99h:20028**
— (*with* Polyakov, L. Ya.) On some lattices of subgroups of finite groups. (Russian. English summary) (*see* **99g:20005**)
— Permutability of subgroups and $\mathfrak{F}$-subnormality. (Russian. Russian summary) **99e:20022**
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Kharlamova, V. I. Description of finite groups with Sylow embedding into $\mathfrak{F}$-subnormal subgroups. (Russian. English summary) (*see* **99g:20004**)
Khodalevich, A. D. Minimal non-Σ-dispersive groups. (Russian. Russian summary) (*see* **99g:20002**)
Khukhro, E. I. On a generalization of the Hughes subgroup. (Russian. Russian summary) **99c:20017**
Kovalenko, A. V. (*with* Skiba, A. N.) On solvable local formations of finite groups with a premaximal π-decomposable local subformation. (Russian. English summary) (*see* **99g:20003**)
Kovalenko, V. Ĭ. Some classes of finite groups with normal nonmetacyclic subgroups. (Ukrainian. English summary)
Li, Shirong $\mathscr{T}$-subnormal and $\mathscr{T}$-subabnormal chains in finite groups. (English summary) **99k:20041**
Lu, Ke Wei (*with* Hao, Zhi Feng) Essential subgroups of finite groups. (Chinese. English and Chinese summaries) **99f:20027**
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Luca, Florian Groups with two Sylow numbers are solvable. (English summary) **99e:20023**
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Riese, Udo (*with* Schmid, Peter Paul) Characters induced from Sylow subgroups. **99e:20013**
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Items with secondary classifications in 20D25

Ali, Asif Groups of p-length one for all primes p. **99h:20022**
Ballester-Bolinches, A. (*with* Bechtell, H.; Ezquerro Marín, Luis Miguel) On pre-Frattini residuals. **99k:20040**
Bechtell, H. (*with* Hofmann, Mark C.) Kernels of formations. (English summary) **99h:20025**
— Complementation and chief factors in finite groups. II. **99b:20038**
— *see also* **Ballester-Bolinches, A.; et al.**, **99k:20040**
Bryce, R. A. (*with* Cossey, John) A note on groups with Hamiltonian quotients. (English summary) **99k:20042**
Cossey, John *see* **Bryce, R. A.**, **99k:20042**
Ezquerro Marín, Luis Miguel *see* **Ballester-Bolinches, A.; et al.**, **99k:20040**
Gilotti, Anna Luisa (*with* Tiberio, Umberto) On the intersection of a certain class of maximal subgroups of a finite group. (English summary) **99e:20026**
Hofmann, Mark C. *see* **Bechtell, H.**, **99h:20025**
Lu, Zaiping (*with* Wang, Pin Chao) On S'-quasinormal subgroups. (English summary) **99c:20032**
Tiberio, Umberto *see* **Gilotti, Anna Luisa**, **99e:20026**
Wang, Kun Ren Finite groups all of whose p-subgroups are p-quasinormal or self-normal. (Chinese. English and Chinese summaries) **99h:20035**
Wang, Pin Chao *see* **Lu, Zaiping**, **99c:20032**

20D30 Series and lattices of subgroups

Bechtell, H. Complementation and chief factors in finite groups. II. **99b:20038**
Braconnier, Jean Sur les suites de composition d'un groupe et la tour des groupes d'automorphismes d'un groupe fini (d'après H. Wielandt). [On the composition sequences of a group and the tower of groups of automorphisms of a finite group (after H. Wielandt)] (*see* **99f:00033**)
Isaacs, I. M. Numbers of classes and chains of subgroups in finite groups. **99g:20038**
Jiménez-Seral, Paz (*with* Lafuente, Julio P.) On complemented nonabelian chief factors of a finite group. (English summary) **99i:20032**
Lafuente, Julio P. *see* **Jiménez-Seral, Paz**, **99i:20032**
Mainardis, Mario Modular sublattices in a finite p-group. **99j:20028**
Novikov, S. P. On the projectivity of principal factors of multirings. (Russian. English summary) (*see* **99g:20003**)
Symonds, Peter The orbit space of the p-subgroup complex is contractible. (English summary) **99f:20033**
Yoshiara, Satoshi The Borel-Tits property for finite groups. (English summary) **99i:20033**

Items with secondary classifications in 20D30

Ballester-Bolinches, A. (*with* Shemetkov, Leonid Aleksandrovich) On lattices of p-local formations of finite groups. **99b:20032**
Burns, John M. (*with* Ellis, Graham J.) Inequalities for Baer invariants of finite groups. (English summary) **99i:20028**
Ellis, Graham J. *see* **Burns, John M.**, **99i:20028**
Goĭko, V. I. On $\mathfrak{F}$-quasi-Frattini subgroups of finite groups. (Russian. English summary) **99h:20042**
Gottschalk, Harald (*with* Leemans, Dimitri) The residually weakly primitive geometries of the Janko group J_1. (English summary) **99h:51014**
Kroshko, N. V. (*with* Sushchanskiĭ, V. I.) Direct limits of symmetric and alternating groups with strictly diagonal embeddings. (English summary) **99f:20048**
Leemans, Dimitri *see* **Gottschalk, Harald**, **99h:51014**
Ormerod, Elizabeth A. A note on the Wielandt subgroup of a metabelian p-group. **99m:20036**
Shemetkov, Leonid Aleksandrovich *see* **Ballester-Bolinches, A.**, **99b:20032**
Starostin, A. I. Finite p-groups. **99b:20036**
Sushchanskiĭ, V. I. *see* **Kroshko, N. V.**, **99f:20048**

20D35 Subnormal subgroups

Ormerod, Elizabeth A. Some p-groups of Weilandt [Wielandt] length three. (English summary) **99j:20029**
Vasil'ev, A. F. On the influence of primary $\mathfrak{F}$-subnormal subgroups on the structure of finite groups. (Russian. English summary) (*see* **99g:20004**)

Items with secondary classifications in 20D35

Ali, Asif Groups of p-length one for all primes p. **99h:20022**
Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) Characterizations of Schunck classes of finite soluble groups. **99j:20024**
Chen, Jin Zhi Conjugate-permutable subgroups. (Chinese. English and Chinese summaries)
De Falco, Maria (*with* Kurdachenko, Leonid A.; Subbotin, Igor Ya.) Groups with only abnormal and subnormal subgroups. **99m:20058**
Kurdachenko, Leonid A. *see* **De Falco, Maria; et al.**, **99m:20058**
Ormerod, Elizabeth A. A note on the Wielandt subgroup of a metabelian p-group. **99m:20036**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A.; et al.**, **99j:20024**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A.; et al.**, **99j:20024**
Qian, Guo Hua *see* **Zhang, Yong Kang; et al.**
Rossanigo, Alessandra (*with* Zambelli, Vittoria) Existence of quasinormal complements for non-normal subgroups of a finite group. (Italian. English summary) **99d:20024**
Subbotin, Igor Ya. *see* **De Falco, Maria; et al.**, **99m:20058**
Xu, He Xian *see* **Zhang, Yong Kang; et al.**
Zambelli, Vittoria *see* **Rossanigo, Alessandra**, **99d:20024**
Zhang, Yong Kang (*with* Qian, Guo Hua; Xu, He Xian) Seminormal quasidirect products in finite groups. (Chinese. English and Chinese summaries)

20D40 Products of subgroups

Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.; Pedraza-Aguilera, M. C.) Mutually permutable products of finite groups. **99k:20046**
Belokon', L. M. On classes of groups with a given factorization. (Russian. English summary) (*see* **99g:20008**)
Carocca, Angel On factorized finite groups in which certain subgroups of the factors permute [commute]. (English summary) **99g:20039**
Cossey, John (*with* Stonehewer, Stewart E.) On the derived length of finite dinilpotent groups. **99a:20023**
— (*with* Stonehewer, Stewart E.) Products of finite nilpotent groups. **99m:20040**
Kurnosenko, N. M. On the factorization of finite groups by supersolvable and nilpotent subgroups. (Russian. English summary) **99j:20030**
Monakhov, V. S. On the product of two groups with cyclic subgroups of index 2. (Russian. English and Russian summaries) **99b:20039**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A.; et al.**, **99k:20046**
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Qian, Guo Hua *see* **Zhang, Yong Kang; et al.**
Stonehewer, Stewart E. *see* **Cossey, John**, **99a:20023** *and* **99m:20040**
Wang, Kun Ren The product of two supersolvable groups. (Chinese. English and Chinese summaries) **99m:20041**
Xu, He Xian *see* **Zhang, Yong Kang; et al.**
Zhang, Yong Kang (*with* Qian, Guo Hua; Xu, He Xian) Seminormal quasidirect products in finite groups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20D40

Baumeister, Barbara Factorizations of primitive permutation groups. **99i:20004**
— A characterization of the finite soluble groups. (English summary) **99m:20028**
Bianchi, Mariagrazia (*with* Gillio Berta Mauri, Anna; Verardi, Libero) Groups in which elements with the same p-power permute [commute]. (English summary) **99c:20021**
Chernikov, N. S. Generalized solvable and generalized π-solvable factorizable groups. (Russian. English summary) **99h:20059**
Detomi, Eloisa On some products of nilpotent groups. (English summary) **99g:20063**
Foguel, Tuval Groups with all cyclic subgroups conjugate-permutable groups. **99m:20093**
Franciosi, Silvana (*with* de Giovanni, Francesco; Sysak, Yaroslav P.) On subnormal subgroups of factorized groups. **99f:20045**
Gillio Berta Mauri, Anna *see* **Bianchi, Mariagrazia; et al.**, **99c:20021**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al.**, **99f:20045**
Höfling, Burkhard Periodic radical products of two locally nilpotent subgroups. **99g:20068**
Kazarin, Lev S. (*with* Zagorin, D. L.) Absence of abelian ABA-factorizations in sporadic simple groups and their automorphism groups. (Russian. English summary) **99h:20021**
Sysak, Yaroslav P. *see* **Franciosi, Silvana; et al.**, **99f:20045**
Verardi, Libero *see* **Bianchi, Mariagrazia; et al.**, **99c:20021**
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20D45 Automorphisms

Ban, Gui Ning (*with* Zhang, Jingsong; Yu, Shuxia) The lower bound for the orders of the automorphism groups. (English summary) **99f:20034**
— Some finite groups that are not automorphism groups. (Chinese. English and Chinese summaries) **99c:20022**
— (*with* Yu, Shuxia) Minimal abelian groups that are not automorphism groups. (English summary) **99d:20032**
Chen, Guiyun (*with* Chigira, Naoki; Yamaki, Hiroyoshi) Finite groups with metacyclic automorphism groups. **99e:20030**
Chigira, Naoki *see* **Chen, Guiyun; et al.**, **99e:20030**
Chiş, Mihai (*with* Deaconescu, Marian; Silberberg, Gheorghe) Finite groups with few central automorphism orbits. (English summary) **99k:20047**
Deaconescu, Marian *see* **Chiş, Mihai; et al.**, **99k:20047**
Feng, Yan-Quan (*with* Gao, Tai-Ping) Automorphism groups and isomorphisms of Cayley digraphs of abelian groups. (English summary) **99h:20043**
Gao, Tai-Ping *see* **Feng, Yan-Quan**, **99h:20043**
Garist, V. È. (*with* Pal'chik, È. M.) On Fukushima's theorem. (Russian. English summary) **99h:20044**
Garist, Yu. È. (*with* Pal'chik, È. M.) On finite groups that admit a coprime automorphism. (Russian. English summary) **99h:20045**
Hegarty, Peter V. Automorphism groups of order P^2Q^2. (English summary) **99i:20034**
Kamornikov, S. F. On solvable groups of automorphisms of finite groups. (Russian. Russian summary) (*see* **99g:20002**)
Ma, Hai-Cheng On isomorphisms of Cayley digraphs on dicyclic groups. (English summary) **99h:20046**
Pal'chik, È. M. *see* **Garist, V. È.**, **99h:20044** *and* **Garist, Yu. È.**, **99h:20045**
Pálfy, P. P. (*with* Pyber, László) Small groups of automorphisms. (English summary) **99g:20040**
Pyber, László *see* **Pálfy, P. P.**, **99g:20040**
Shumyatskiĭ, P. V. Involutory automorphisms of finite groups and their centralizers. (English summary) **99j:20031**
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Yamaki, Hiroyoshi *see* **Chen, Guiyun; et al.**, **99e:20030**
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Zhang, Jingsong *see* **Ban, Gui Ning; et al.**, **99f:20034**
Zhu, De Gao The automorphism group and the holomorph of the dihedral group D_{2^n}. (Chinese. English and Chinese summaries) **99i:20035**

Items with secondary classifications in 20D45

Arroyo-Jordá, P. (*with* Martínez-Pastor, A.) On certain actions of groups and injective Fitting sets. **99d:20050**

Braconnier, Jean Sur les suites de composition d'un groupe et la tour des groupes d'automorphismes d'un groupe fini (d'après H. Wielandt). [On the composition sequences of a group and the tower of groups of automorphisms of a finite group (after H. Wielandt)] (*see* **99f:00033**)

Garist, Yu. È. *see* **Pal'chik, È. M., 99h:20031**

Ivanov, Aleksandr Anatol'evich Flag-transitive extensions of dual polar spaces. (Russian) **99m:51004**

Khukhro, E. I. ★ p-automorphisms of finite p-groups. (English summary) **99d:20029**

Martínez-Pastor, A. *see* **Arroyo-Jordá, P., 99d:20050**

Medvedev, Yurīĭ Aleksandrovich p-groups, Lie p-rings and p-automorphisms. **99m:20035**

Pal'chik, È. M. (*with* Garist, Yu. È.) On finite groups that admit automorphisms of prime order. (Russian. English summary) **99h:20031**

Starostin, A. I. Finite p-groups. **99b:20036**

20D50 Covering of subgroups

Items with secondary classifications in 20D50

Goĭko, V. I. On $\mathfrak{F}$-quasi-Frattini subgroups of finite groups. (Russian. English summary) **99h:20042**

20D60 Arithmetic and combinatorial problems

Adami, S. (*with* Bianchi, Mariagrazia; Gillio Berta Mauri, Anna; Herzog, Marcel) On graph-complete groups. (Italian summary) **99b:20040**

Ahearn, Stephen T. (*with* Huber, Mark L.; Sherman, Gary J.) Finite groups can be arbitrarily Hamiltonian. (English summary) **99k:20048**

Ashrafi, A. A note on the number of minimal subgroups in a finite group. (English summary) **99g:20041**

Bianchi, Mariagrazia (*with* Gillio Berta Mauri, Anna; Heineken, Hermann; Verardi, Libero) Groups with big centralizers. (Italian summary) **99b:20041**

— *see also* **Adami, S.; et al., 99b:20040**

Cho, Jung R. (*with* Ito, Noboru; Kim, Pan Soo) On Hadamard property of a certain class of finite groups. (English summary) **99d:20033**

Feng, Yan-Quan Finite groups whose abelian subgroup orders are consecutive integers. (English and Chinese summaries)

Gillio Berta Mauri, Anna *see* **Adami, S.; et al., 99b:20040** *and* **Bianchi, Mariagrazia; et al., 99b:20041**

Heineken, Hermann *see* **Bianchi, Mariagrazia; et al., 99b:20041**

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Hiramine, Yutaka On three-dimensional Schur rings obtained from partial spreads. (English summary) **99b:20042**

Huber, Mark L. *see* **Ahearn, Stephen T.; et al., 99k:20048**

Ito, Noboru *see* **Cho, Jung R.; et al., 99d:20033**

Kedlaya, Kiran S. Product-free subsets of groups. **99m:20042**

Kim, Pan Soo *see* **Cho, Jung R.; et al., 99d:20033**

Łuczak, Tomasz (*with* Schoen, Tomasz) Small bases for finite groups. **99i:20036**

Mazurov, Viktor Danilovich Characterizations of finite groups by the set of orders of their elements. (*see* **99g:00046**)

Niemenmaa, Markku On connected transversals to subgroups whose order is a product of two primes. (English summary) **99b:20043**

Pyber, László Group enumeration and where it leads us. **99i:20037**

Schoen, Tomasz *see* **Łuczak, Tomasz, 99i:20036**

Schwab, Emil D. (*with* Silberberg, Gheorghe) Über die Anzahl der zyklischen Untergruppen gegebener Ordnung im Falle einer endlichen Gruppe. (German summary) [On the number of cyclic subgroups of given order in the case of a finite group] **99m:20043**

Shareshian, John On the probabilistic zeta function for finite groups. (English summary) **99k:20049**

Sherman, Gary J. *see* **Ahearn, Stephen T.; et al., 99k:20048**

Shi, Wu Jie Groups whose elements have prescribed orders. (Chinese)

— Finite groups defined by the sets of their element orders. (*see* **99g:00046**)

Silberberg, Gheorghe *see* **Schwab, Emil D., 99m:20043**

Skałba, Mariusz On the relative Davenport constant. (English summary) **99b:20044**

Sury, B. The Chevalley-Warning theorem and a combinatorial question on finite groups. (English summary) **99f:20035**

Swan, Richard G. A simple proof of Rankin's campanological theorem.

Szabó, Sándor Elementary 3-groups with Hajós n-property. (English summary) **99m:20044**

Tomkinson, M. J. Groups as the union of proper subgroups. **99g:20042**

Verardi, Libero *see* **Bianchi, Mariagrazia; et al., 99b:20041**

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Bedford, David (*with* Whitaker, Roger M.) Enumeration of transversals in the Cayley tables of the non-cyclic groups of order 8. (English summary) **99i:05200**

Borovik, A. V. On the number of maximal soluble subgroups of a finite group. **99k:20035**

Davis, James Andrew (*with* Iiams, Joel E.) Hadamard difference sets in nonabelian 2-groups with high exponent. (English summary) **99a:05017**

Ecker, Jürgen On the number of polynomial functions on nilpotent groups of class 2. (English summary) **99h:20036**

Ellis, Graham J. (*with* McDermott, Aidan) Tensor products of prime-power groups. (English summary) **99g:20049**

Iiams, Joel E. *see* **Davis, James Andrew, 99a:05017**

Isaacs, I. M. Numbers of classes and chains of subgroups in finite groups. **99g:20038**

Lucchini, Andrea Enumerating transitive finite permutation groups. **99g:20012**

McDermott, Aidan *see* **Ellis, Graham J., 99g:20049**

Nakagawa, Nobuo Left cyclic planar functions of degree p^n. (English summary) **99c:51011**

Whitaker, Roger M. *see* **Bedford, David, 99i:05200**

20D99 None of the above, but in this section

Aschbacher, Michael G. Near subgroups of finite groups. (English summary) **99e:20031**

Bechtell, H. (*with* Deaconescu, Marian; Silberberg, Gheorghe) Finite groups with large automizers for their abelian subgroups. (English summary) **99a:20024**

Chigira, Naoki Finite groups whose abelian subgroups have consecutive orders. **99g:20043**

Cirino Groccia, Maria Cristina (*with* Musella, Carmela) A note on finite complemented groups. (English and Italian summaries) **99d:20034**

Deaconescu, Marian *see* **Bechtell, H.; et al., 99a:20024**

Heineken, Hermann Examples of complete groups of odd order. (English summary) **99b:20045**

Kamornikov, S. F. *see* **Vorobeĭ, L. A., (99g:20008)**

Li, Yue Fen Properties of group antihomomorphisms and anti-isomorphisms. (Chinese. English summary)

Liebeck, Martin W. (*with* Pyber, László) Upper bounds for the number of conjugacy classes of a finite group. (English summary) **99c:20023**

Maličký, Peter Greatest common subgroup and smallest common supergroup of two finite groups and related metrics on a system of finite groups. (English summary) **99e:20032**

Musella, Carmela *see* **Cirino Groccia, Maria Cristina, 99d:20034**

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Robinson, Geoffrey R. On local control of the number of conjugacy classes. **99e:20033**

Sel'kin, M. V. (*with* Sidorov, Aleksandr Vladimirovich) On intersections of maximal subgroups of finite groups. (Russian. English and Russian summaries)

Shahabi Shojaei, M. A. *see* **Shahryari, M., 99e:20034**

Shahryari, M. (*with* Shahabi Shojaei, M. A.) Subgroups which are the union of three conjugate [conjugacy] classes. (English summary) **99e:20034**

Sidorov, Aleksandr Vladimirovich *see* **Sel'kin, M. V.**

Silberberg, Gheorghe *see* **Bechtell, H.; et al., 99a:20024**

Singh, Janeshwar (*with* Singh, Tarkeshwar[1]) Some theorems on Frobenius group with Frobenius complement. (English summary)

Singh, Tarkeshwar[1] *see* **Singh, Janeshwar**

Vasantha Kandasamy, W. B. On n-harmonious subgroups of a group. (English summary)

Vorobeĭ, L. A. (*with* Kamornikov, S. F.) On complemented elements of a lattice of subgroup functors of a homomorph. (Russian. English summary) (*see* **99g:20008**)

Zhang, Jiping On the lengths of conjugacy classes. (English summary) **99m:20045**

Items with secondary classifications in 20D99

Black, Sarah A finitary Tits' alternative. (English summary) **99k:20070**

Dalla Volta, Francesca (*with* Lucchini, Andrea) Finite groups that need more generators than any proper quotient. (English summary) **99a:20030**

Guo, Xiuyun On Deskins's conjecture. (English summary) **99b:20059b**

Lucchini, Andrea *see* **Dalla Volta, Francesca, 99a:20030**

Mel'nikov, Yu. B.[2] Representation of the endomorphism semigroup of a finite group on the space of its class functions. (Russian) **99m:20154**

Zhao, Yaoqing On Deskins's conjecture concerning the supersolvability of a finite group. (English summary) **99b:20059a**

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20E05 Free nonabelian groups

Bergman, George M. Supports of derivations, free factorizations, and ranks of fixed subgroups in free groups. (English summary) **99f:20036**

Coulbois, Thierry (*with* Khelif, Anatole) Equations in free groups are not finitely approximable. (English summary) **99f:20037**

Dicks, Warren Erratum: "On the intersection of finitely generated subgroups of free groups" [Rev. Mat. Univ. Complut. Madrid **9** (1996), no. 1, 67–84; MR 98c:20046] by W. S. Jassim. (English summary) **99m:20046**

Ei, Hiromi (*with* Ito, Shunji) Decomposition theorem on invertible substitutions. **99k:20050**

Gaboriau, Damien (*with* Levitt, Gilbert; Lustig, Martin) A dendrological proof of the Scott conjecture for automorphisms of free groups. (English summary) **99d:20035**

Hatcher, Allen (*with* Vogtmann, Karen) The complex of free factors of a free group. **99i:20038**

Hurley, T. C. (*with* Ward, M. A.) Bases for commutator subgroups of a free group. (English summary) **99f:20038**

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Ivanov, Sergei Vladimir On certain elements of free groups. (English summary) **99e:20035**

— On endomorphisms of free groups that preserve primitivity. (English summary) **99m:20047**

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Kharlampovich, Olga (*with* Myasnikov, A. G.) Tarski's problem about the elementary theory of free groups has a positive solution. (English summary) **99k:20051**

— (*with* Myasnikov, A. G.) Description of fully residually free groups and irreducible affine varieties over a free group. **99j:20032**

Khelif, Anatole *see* **Coulbois, Thierry, 99f:20037**

Lawrence, John W. Rank and abelian rank of systems of equations over the free group. (English summary) **99f:20039**

Levitt, Gilbert *see* **Gaboriau, Damien; et al., 99d:20035**

Liu, Guoyang (*with* Robertson, Lewis C.) Free subgroups of $SO_3(\mathbf{Q})$. **99m:20048**

Lustig, Martin *see* **Gaboriau, Damien; et al., 99d:20035**

Myasnikov, A. G. *see* **Kharlampovich, Olga, 99j:20032** *and* **99k:20051**

Protasov, I. V. (*with* Yurchuk, T. L.) Decomposability of free groups. (Russian. English summary) **99m:20049**

Robertson, Lewis C. *see* **Liu, Guoyang, 99m:20048**

Satô, Kenzi Free groups acting without fixed points on rational spheres. **99g:20044**

Shpilrain, Vladimir Generalized primitive elements of a free group. (English summary) **99j:20033**

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Items with secondary classifications in 20E05

Dougherty, Randall (*with* Mycielski, Jan) Representations of infinite permutations by words. II. (English summary) **99j:20002**
Egorov, Andreĭ Vladimirovich Structural stability of free groups. **99e:20045**
Gaboriau, Damien (*with* Jaeger, Andre; Levitt, Gilbert; Lustig, Martin) An index for counting fixed points of automorphisms of free groups. **99f:20051**
Gaglione, Anthony M. (*with* Spellman, Dennis) Almost locally free groups and the genus question. (English summary) **99i:20003**
Gupta, Chander Kanta (*with* Noskov, G. A.) Splitting epimorphisms of free metabelian groups. (English summary) **99d:20068**
Gutiérrez, Mauricio (*with* Krstić, Sava) Normal forms for basis-conjugating automorphisms of a free group. **99m:20077**
Hatcher, Allen (*with* Vogtmann, Karen) Rational homology of $\mathrm{Aut}(F_n)$. (English summary) **99m:20127**
Herfort, W. N. (*with* Ribes, L.; Zalesskii, P. A.) Finite extensions of free pro-p groups of rank at most two. (English summary) **99m:20061**
Howie, James Free subgroups in groups of small deficiency. **99e:20041**
Jaeger, Andre *see* **Gaboriau, Damien; et al.**, **99f:20051**
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Lustig, Martin *see* **Gaboriau, Damien; et al.**, **99f:20051**
Mateĭko, O. M. (*with* Tavgen′, O. I.) Linear representations of the automorphism groups of free groups. (Russian. English summary) **99k:20016**
— (*with* Tavgen′, O. I.) Linear representations of degrees 2 and 3 of the automorphism group of a free group of rank 2. (Russian. English and Russian summaries) **99c:20006**
Moghaddam, Mohammad Reza R. (*with* Salemkar, Ali Reza) Some remarks on generalized Schur pairs. (English summary) **99f:20056**
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Usenko, V. M. *see* **Velichko, V. E.**, (**99g:20008**)
Velichko, V. E. (*with* Usenko, V. M.) Left ideals of an endomorphism semigroup of a free group. (Russian. English summary) (*see* **99g:20008**)
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Zieschang, Heiner On the Nielsen and Whitehead methods in combinatorial group theory and topology. (English summary) **99g:20059**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Azarian, M. K. Recent advances in the near Frattini subgroup. (English summary) **99f:20040**
Bardakov, V. G. On the width of verbal subgroups of some free constructions. (Russian. Russian summary) **99c:20024**
Benyash-Krivets, V. V. On the decomposition of the free product of cyclic groups with one relation into an amalgamated free product. (Russian. Russian summary) **99m:20050**
Bleiler, Steven A. (*with* Jones, Amelia C.) The free product of groups with amalgamated subgroup malnormal in a single factor. (English summary) **99f:20041**
Burillo, José Quasi-isometrically embedded subgroups of Thompson's group F. (English summary) **99m:20051**
Burns, Robert G. (*with* Chau, T. C.; Kam, S.-M.) On the rank of intersection of subgroups of a free product of groups. (English summary) **99a:20025**
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Dekov, Deko V. Free products with amalgamation of monoids. (English summary) **99a:20026**
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Long, D. D. (*with* Reid, Alan W.) Free products with amalgamation and p-adic Lie groups. (English summary) **99m:20052**
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Ribes, L. (*with* Segal, Daniel; Zalesskii, P. A.) Conjugacy separability and free products of groups with cyclic amalgamation. **99m:20053**
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Bergman, George M. Supports of derivations, free factorizations, and ranks of fixed subgroups in free groups. (English summary) **99f:20036**
Bowditch, Brian H. Cut points and canonical splittings of hyperbolic groups. **99g:20069**
Brick, Stephen G. (*with* Corson, Jon M.) Annular Dehn functions of groups. (English summary) **99m:20068**
Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.) Amenability and growth of one-relator groups. (English summary) **99b:20057**
Ching, Kenny Graphs with projective linear stabilizers. (English summary) **99m:05066**
Corson, Jon M. *see* **Brick, Stephen G.**, **99m:20068**
Dokuchaev, M. A. (*with* Singer, Maria Lucia Sobral) Units in group rings of free products of prime cyclic groups. (English summary) **99g:16039**
Dunwoody, M. J. (*with* Jones, J. Mary) A group with strange decomposition properties. **99d:20036**
Fine, Benjamin (*with* Rosenberger, Gerhard; Stille, Michael) Conjugacy pinched and cyclically pinched one-relator groups. (English summary) **99c:20039**
Grigorchuk, Rostislav I. An example of a finitely presented amenable group that does not belong to the class EG. (Russian. Russian summary) **99b:20055**
— *see also* **Ceccherini-Silberstein, Tullio G.**, **99b:20057**
Guirardel, Vincent Approximations of stable actions on **R**-trees. (English summary) **99e:20037**
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Kim, Goansu (*with* Tang, Francis C. Y.) On generalized free products of residually finite p-groups. (English summary) **99a:20028**
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Mahmood, R. M. S. The subgroup theorem for groups acting on trees. (English and Arabic summaries) **99g:20046**
Mateĭko, O. M. Linear two-dimensional representations of the free product of two finite cyclic groups. (Russian. English and Russian summaries) **99b:20022**
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Tieudjo, D. (*with* Moldavanskiĭ, David I.) Endomorphisms of the group $G_{mn} = \langle a, b;\ [a^m, b^n] = 1\rangle\ m, n > 1$. (English summary) **99i:20044**
Wilson, John S. (*with* Zalesskii, P. A.) Conjugacy separability of certain Bianchi groups and HNN extensions. **99b:20054**
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Zastrow, Andreas Construction of an infinitely generated group that is not a free product of surface groups and abelian groups, but which acts freely on an **R**-tree. (English summary) **99d:20037**

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Chen, Jin Zhi Conjugate-permutable subgroups. (Chinese. English and Chinese summaries)
Monakhov, V. S. (*with* Sel′kin, M. V.) On the structure of normal subgroups of finite groups. (Russian. Russian summary) (*see* **99g:20002**)
— Finite groups with 2-nilpotent subgroups of even index. (Russian. Russian summary) **99h:20048**
Polyakov, L. Ya. On properties of normal subgroups of finite groups. (Russian. English summary) (*see* **99g:20004**)
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Semko, N. N. The structure of groups with some conditions on the density of normality for subgroups. (Ukrainian. English summary) **99k:20053**
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Cirino Groccia, Maria Cristina (*with* Musella, Carmela) A note on finite complemented groups. (English and Italian summaries) **99d:20034**
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Frey, Darrin D. Conjugacy of Alt_5 and $\mathrm{SL}(2,5)$ subgroups of $E_6(\mathbf{C})$, $F_4(\mathbf{C})$, and a subgroup of $E_8(\mathbf{C})$ of type A_2E_6. (English summary) **99h:20076**
Howie, James Free subgroups in groups of small deficiency. **99e:20041**
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Seitz, Gary M. (*with* Testerman, Donna M.) Subgroups of type A_1 containing semiregular unipotent elements. **99b:20082**
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Smith, Howard (*with* Wiegold, James) Groups isomorphic to their non-nilpotent subgroups. **99h:20068**
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20E08 Groups acting on trees

Bowditch, Brian H. Group actions on trees and dendrons. **99i:20039**
Brunner, A. M. (*with* Sidki, Said; Vieira, Ana Cristina) A just nonsolvable torsion-free group defined on the binary tree. (English summary) **99m:20054**
Chermak, Andrew A convergence theorem for Λ-trees. **99c:20025**
Chiswell, I. M. Introduction to Λ-trees. **99g:20045**
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Guirardel, Vincent Approximations of stable actions on **R**-trees. (English summary) **99e:20037**
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Levitt, Gilbert Non-nesting actions on real trees. (English summary) **99a:20027**
Mahmood, R. M. S. The subgroup theorem for groups acting on trees. (English and Arabic summaries) **99g:20046**
Rozhkov, A. V. Metric relations in groups of tree automorphisms. (Russian. Russian summary) **99m:20055**
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Zastrow, Andreas Construction of an infinitely generated group that is not a free product of surface groups and abelian groups, but which acts freely on an **R**-tree. (English summary) **99d:20037**

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Chermak, Andrew Locally non-spherical Artin groups. **99e:20046**
Fleury, Odile Sur les sous-groupes finis de Aut $U(\mathfrak{sl}_2)$ et Aut $U(\mathfrak{h})$. (French summary) [On the finite subgroups of Aut $U(\mathfrak{sl}_2)$ and Aut $U(\mathfrak{h})$] **99b:17018**
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Oyono-Oyono, Hervé La conjecture de Baum-Connes pour les groupes agissant sur les arbres. (English and French summaries) [The Baum-Connes conjecture for groups acting on trees] **99j:19006**
Pavone, Marco On the hyperbolic limit points of groups acting on hyperbolic spaces. (English summary) **99f:20063**
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(Schneps, Leila) *see* **Serre, Jean-Pierre, 99d:20081**
Sela, Z. Endomorphisms of hyperbolic groups. I. The Hopf property. (English summary) **99m:20081**
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20E10 Quasivarieties and varieties of groups

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Lawrence, John W. (*with* Willard, Ross) On finitely based groups and nonfinitely based quasivarieties. (English summary) **99g:20047**
Lenyuk, S. V. Filters in the lattice of quasivarieties of metabelian groups. (Russian. Russian summary) **99f:20044**
Macedońska, Olga On identities defining t-groups. (English and Russian summaries)
Mikaelyan, V. G. Identities of finite extensions of groups. (Russian. Armenian summary)
Moghaddam, Mohammad Reza R. (*with* Kayvanfar, S.) $\mathscr{V}$-perfect groups. (English summary) **99c:20026**
Shakhova, S. A. On the lattice of quasivarieties of nilpotent groups of class 2. (English summary) **99c:20027**
Timoshenko, E. I. On primitive elements of free groups of the varieties $\mathfrak{A}\mathfrak{N}_n$. (Russian. Russian summary) **99g:20048**
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Ali, Zafar (*with* Majeed, Abdul) On the laws of nilpotent pointed-groups. (English summary) **99m:20073**
Anokhin, M. I. On the word problem and the conjugacy problem for groups of the form $F/V(R)$. (Russian. Russian summary) **99g:20060**
Bardakov, V. G. On the width of verbal subgroups of some free constructions. (Russian. Russian summary) **99c:20024**
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Majeed, Abdul *see* **Ali, Zafar, 99m:20073**
Mashayekhy, Behrooz The Baer-invariant of a semidirect product. (English summary) **99d:20040**
— A remark on generalized covering groups. (English summary) **99g:20065**
Timoshenko, E. I. On the definability of the endomorphisms of a free group of the variety $\mathfrak{A}\mathfrak{M}$ by a finite set of values. (Russian. Russian summary) **99d:20049**

20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Artemovich, O. D. On indecomposable groups and groups with hypercentral-by-finite proper subgroups. (English summary) **99i:20040**
Cirino Groccia, Maria Cristina Complementation problems. (Italian)
De Falco, Maria (*with* Kurdachenko, Leonid A.; Subbotin, Igor Ya.) Groups with only abnormal and subnormal subgroups. **99m:20058**
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— (*with* de Giovanni, Francesco; Sysak, Yaroslav P.) On ascendant subgroups of infinite groups. **99f:20046**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 99f:20045** *and* **99f:20046**
Heineken, Hermann Groups with neighbourhood conditions for certain lattices. **99k:20056**
Kiss, Emil W. (*with* Pálfy, P. P.) A lattice of normal subgroups that is not embeddable into the subgroup lattice of an abelian group. **99m:20059**
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Pálfy, P. P. *see* **Kiss, Emil W., 99m:20059**
Robinson, Derek J. S. (*with* Timm, Mathew) On groups that are isomorphic with every subgroup of finite index and their topology. (English summary) **99d:20038**
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de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 99b:20061**
Jiménez-Seral, Paz (*with* Lafuente, Julio P.) On complemented nonabelian chief factors of a finite group. (English summary) **99i:20032**
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Lafuente, Julio P. *see* **Jiménez-Seral, Paz, 99i:20032**
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Ershov, Yu. L. Free Δ^*-groups. (Russian. Russian summary) **99c:20028**
Grossberg, Rami *see* **Shelah, Saharon, 99d:20039**
Herfort, W. N. (*with* Ribes, L.; Zalesskiĭ, P. A.) Finite extensions of free pro-p groups of rank at most two. (English summary) **99m:20061**
King, Jeremy D. Embedding theorems for pro-p groups. **99b:20048**
Kroshko, N. V. (*with* Sushchanskiĭ, V. I.) Direct limits of symmetric and alternating groups with strictly diagonal embeddings. (English summary) **99f:20048**
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Scheiderer, Claus The structure of some virtually free pro-p groups. (English summary) **99f:20049**
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Shelah, Saharon (*with* Grossberg, Rami) On cardinalities in quotients of inverse limits of groups. (English summary) **99d:20039**
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Items with secondary classifications in 20E18

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Feit, Paul Structure theory for pro-objects from an arbitrary category. (English summary) **99k:18003**
Fried, Michael D. (*with* Jarden, Moshe) On Σ-Hilbertian fields. (English summary) **99k:12004**
Henn, Hans-Werner Centralizers of elementary abelian p-subgroups and mod-p cohomology of profinite groups. **99b:20083**
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Lévai, L. Linear core conditions in residually finite groups. (English summary) **99i:20042**
Lochak, Pierre (*with* Schneps, Leila) The universal Ptolemy-Teichmüller groupoid. (English summary) **99i:20052**
Opolka, Hans A note on rationality of representations of profinite groups. (English summary) **99h:20013**
Pálfy, P. P. The number of conjugacy classes in some quotients of the Nottingham group. (English summary) **99f:20030**
Pyber, László Group enumeration and where it leads us. **99i:20037**
Ribes, L. (*with* Segal, Daniel; Zalesskii, P. A.) Conjugacy separability and free products of groups with cyclic amalgamation. **99m:20053**
Schneps, Leila *see* **Lochak, Pierre, 99i:20052**
Segal, Daniel *see* **Ribes, L.; et al., 99m:20053**
Tan, Geok-Choo P-nilpotent completion is not idempotent. (English summary) **99i:20045**
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Zelmanov, Efim I. On some open problems related to the restricted Burnside problem. **99k:20082**

20E22 Extensions, wreath products, and other compositions [see also 20J05]

Abbasi, G. Q. Central decompositions of finite p-groups with abelian second centre and the centre of order p. (English summary) **99b:20049**
Baumslag, Gilbert (*with* Bridson, Martin R.; Gruenberg, Karl W.) On the absence of cohomological finiteness in wreath products. (English summary) **99f:20050**
Bridson, Martin R. *see* **Baumslag, Gilbert; et al., 99f:20050**
Ellis, Graham J. (*with* McDermott, Aidan) Tensor products of prime-power groups. (English summary) **99g:20049**
Gruenberg, Karl W. *see* **Baumslag, Gilbert; et al., 99f:20050**
Inasaridze, N. Non-abelian tensor products of finite groups with non-compatible actions. (English summary)
Lucchini, Andrea Generating wreath products and their augmentation ideals. **99c:20029**
Marchionna Tibiletti, Cesarina Groups obtained via extension with respect to a type of "weak normality". (Italian. English summary) **99b:20050**
Mashayekhy, Behrooz The Baer-invariant of a semidirect product. (English summary) **99d:20040**
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Mikaelyan, V. G. On identities of finite extensions of groups and of extensions of finite groups. (Russian. Armenian summary)
Rudkovskiĭ, M. A. Twisted product of Lie groups. (Russian. Russian summary) **99b:20051**
Wehrfritz, B. A. F. The linearity of wreath products. **99b:20052**

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Delon, Françoise (*with* Simonetta, Patrick) Undecidable wreath products and skew power series fields. **99b:03059**
Dias, Ana Paula S. Hopf bifurcation for wreath products. (English summary) **99e:58132**
Huang, Jian Hua[1] (*with* Wang, Xiao Li) On the structure of finite group modules. (Chinese. English and Chinese summaries) **99e:20010**
Kayvanfar, S. *see* **Moghaddam, Mohammad Reza R., 99c:20026**
Lichtman, A. I. The residual nilpotence of verbal wreath products. (English summary) **99e:20039**
Moghaddam, Mohammad Reza R. (*with* Kayvanfar, S.) $\mathscr{V}$-perfect groups. (English summary) **99c:20026**
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Xu, He Xian (*with* Zhu, Zuo Tong) Universal mappings of wreath products of lattice-ordered groups. (Chinese. English and Chinese summaries)
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20E25 Local properties

Chermak, Andrew Quadratic action and the $\mathscr{P}(G, V)$-theorem in arbitrary characteristic. **99m:20062**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally soluble-by-finite groups with all proper non-nilpotent subgroups of finite rank. (English summary) **99k:20058**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 99k:20058**
Longobardi, Patrizia (*with* Maj, Mercede; Smith, Howard) Locally nilpotent groups with all subgroups normal-by-(finite rank). (English summary) **99e:20038**
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Smith, Howard *see* **Longobardi, Patrizia; et al., 99e:20038** *and* **Dixon, Martyn R.; et al., 99k:20058**
Sozutov, A. I. On the existence of f-local subgroups in a group. (Russian. Russian summary) **99c:20030**

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Chernikov, N. S. Locally finite and locally hyperabelian groups factorizable by subgroups of finite special rank. (Russian. English summary) **99h:20064**
Gaglione, Anthony M. (*with* Spellman, Dennis) Almost locally free groups and the genus question. (English summary) **99i:20003**
Haugh, M. (*with* MacHale, Desmond) The subgroup generated by the squares. (English summary) **99j:20027**
MacHale, Desmond *see* **Haugh, M., 99j:20027**
Shlëpkin, A. K. Shunkov groups with primary minimality condition. I. (English summary) **99k:20057**
Spellman, Dennis *see* **Gaglione, Anthony M., 99i:20003**
Stoll, Michael On the asymptotics of the growth of 2-step nilpotent groups. (English summary) **99k:20068**
Vieira, Ana Cristina On the lower central series and the derived series of the Gupta-Sidki 3-group. **99i:20041**
Wu, Yu-Fen Groups in which commutativity is a transitive relation. (English summary) **99f:20065**

20E26 Residual properties and generalizations

Azarov, D. N. On the residual finiteness of free products of groups with one amalgamated subgroup. (Russian. Russian summary) **99c:20031**
Fine, Benjamin (*with* Gaglione, Anthony M.; Myasnikov, A. G.; Rosenberger, Gerhard; Spellman, Dennis) A classification of fully residually free groups of rank three or less. (English summary) **99b:20053**
Gaglione, Anthony M. *see* **Fine, Benjamin; et al., 99b:20053**
Kim, Goansu (*with* Tang, Francis C. Y.) On generalized free products of residually finite p-groups. (English summary) **99a:20028**
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Lichtman, A. I. The residual nilpotence of verbal wreath products. (English summary) **99e:20039**
Liu, Wen De A class of infinite groups: the SC-groups. II. (Chinese. English and Chinese summaries)
Mann, Avinoam (*with* Segal, Daniel) Subgroup growth: some current developments. **99d:20041**
Myasnikov, A. G. *see* **Fine, Benjamin; et al., 99b:20053**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 99b:20053**
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— On groups with commutators of bounded order. (English summary) **99m:20065**
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Wilson, John S. (*with* Zalesskii, P. A.) Conjugacy separability of certain Bianchi groups and HNN extensions. **99b:20054**
Wise, Daniel T. A continually descending endomorphism of a finitely generated residually finite group. (English summary) **99g:20050**
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Chapuis, Olivier ∀-free metabelian groups. **99d:03035**
Chatzidakis, Zoé Torsion in pro-p completions of torsion-free groups. **99m:20060**
Endimioni, Gérard On the nilpotent length of polycyclic groups. (English summary) **99g:20064**
Fine, Benjamin (*with* Rosenberger, Gerhard; Stille, Michael) Conjugacy pinched and cyclically pinched one-relator groups. (English summary) **99c:20039**
Kharlampovich, Olga (*with* Myasnikov, A. G.) Description of fully residually free groups and irreducible affine varieties over a free group. **99j:20032**
Myasnikov, A. G. *see* **Kharlampovich, Olga, 99j:20032**
Ribes, L. (*with* Segal, Daniel; Zalesskii, P. A.) Conjugacy separability and free products of groups with cyclic amalgamation. **99m:20053**
Rocco, N. R. (*with* Shumyatskiĭ, P. V.) On periodic groups having almost regular 2-elements. (English summary) **99m:20086**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 99c:20039**
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Shalev, Aner Centralizers in residually finite torsion groups. (English summary) **99b:20066**
Shumyatskiĭ, P. V. On groups having a four-subgroup with finite centralizer. **99k:20081**
— *see also* **Rocco, N. R., 99m:20086**
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20E28 Maximal subgroups

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Lu, Jie Qing *see* **Wang, Xiao Jing; et al., 99j:20035**
Lu, Zaiping (*with* Wang, Pin Chao) On S^t-quasinormal subgroups. (English summary) **99c:20032**
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Wang, Xiao Jing (*with* Wang, Pin Chao; Lu, Jie Qing; Liu, Qiu Xiang) The index complex of a maximal subgroup. (Chinese. English and Chinese summaries) **99j:20035**

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Al'-Sharo, Khaled On the intersection of a family of maximal subgroups of a finite group. (Russian. English summary) **99h:20038**
Asparouhov, Tihomir Bounds on the order of cross characteristic subgroups of the finite simple groups of Lie type. (English summary) **99a:20012**
Azarian, M. K. Recent advances in the near Frattini subgroup. (English summary) **99f:20040**
Ballester-Bolinches, A. (*with* Bechtell, H.; Ezquerro Marín, Luis Miguel) On pre-Frattini residuals. **99k:20040**
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Baumeister, Barbara A characterization of the finite soluble groups. (English summary) **99m:20028**

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Ford, Ben Overgroups of irreducible linear groups. II. (English summary) **99m:20102**
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— *see also* **Zhang, Yueming; et al., 99m:20032**
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do Lago, Alair Pereira Maximal groups in free Burnside semigroups. (English summary) **99f:20093**
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Scott, Leonard L. Linear and nonlinear group actions, and the Newton Institute program. **99k:20029**
Seitz, Gary M. Maximal subgroups of finite exceptional groups. (English summary) **99g:20092**
Wang, Deng Yin (*with* Li, Shang Zhi) Overgroups of $L_1(F)$ in $L(F)$. (Chinese. English and Chinese summaries) **99m:20107**
Zhang, Yueming (*with* Ballester-Bolinches, A.; Guo, Xiuyun) On the Deskins index complex of a maximal subgroup of a finite group. (English summary) **99m:20032**
Zhao, Yaoqing On the Deskins completions, theta completions and theta pairs for maximal subgroups. I, II. (English summary) **99f:20032**
— On Deskins's conjecture concerning the supersolvability of a finite group. (English summary) **99b:20059a**

20E32 Simple groups [see also 20D05]

Stein, Alexander $1\frac{1}{2}$-generation of finite simple groups. **99h:20050**
Thompson, John G. Sylow 2-subgroups of simple groups. (*see* **99f:00042**)

Items with secondary classifications in 20E32

Griess, Robert L., Jr. (*with* Ryba, A. J. E.) Finite simple groups which projectively embed in an exceptional Lie group are classified! (English summary) **99g:20085**
Hayashi, Makoto[1] (*with* Tanaka, Yasuhiko) On the finite simple groups all of whose 2-local subgroups are solvable. **99k:20033**
Huybrechts, Cécile (*with* Pasini, Antonio) A characterization of the Hall-Janko group J_2 by a $c.L^*$-geometry. (English summary) **99i:51011**
Kaarli, Kalle Primitivity and simplicity of non-zerosymmetric near-rings. **99k:16094**
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Tanaka, Yasuhiko *see* **Hayashi, Makoto[1], 99k:20033**
Wang, Deng Yin (*with* Li, Shang Zhi) Overgroups of $L_1(F)$ in $L(F)$. (Chinese. English and Chinese summaries) **99m:20107**
Wiedorn, Corinna A semiclassical parabolic system related to F_4. **99k:20061**
Wilson, John S. First-order group theory. (English summary) **99f:03045**

20E34 General structure theorems

Li, Cai Heng (*with* Praeger, Cheryl E.; Xu, Ming-Yao) On finite groups with the Cayley isomorphism property. (English summary) **99c:20033**
Lucchini, Andrea (*with* Puglisi, Orazio) A note on groups satisfying the congruence intersection property. (English summary) **99h:20051**
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Senashov, V. I. On a question of V. P. Shunkov. (Russian. Russian summary) **99h:20052**
Xu, Ming-Yao *see* **Li, Cai Heng; et al., 99c:20033**

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Bechtell, H. (*with* Deaconescu, Marian; Silberberg, Gheorghe) Finite groups with large automizers for their abelian subgroups. (English summary) **99a:20024**
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Guralnick, Robert M. (*with* Penttila, Tim; Praeger, Cheryl E.; Saxl, Jan) Linear groups with orders having certain large prime divisors. (English summary) **99m:20113**
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20E36 General theorems concerning automorphisms of groups

Gaboriau, Damien (*with* Jaeger, Andre; Levitt, Gilbert; Lustig, Martin) An index for counting fixed points of automorphisms of free groups. **99f:20051**
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Wagner, Frank O. Almost invariant families. (English summary) **99c:20034**

Items with secondary classifications in 20E36

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Ivanov, Sergei Vladimir On certain elements of free groups. (English summary) **99e:20035**

20E42 Groups with a BN-pair; buildings [see also 51E24]

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Brown, Kenneth S. ★ Buildings. **99d:20042**
Cartwright, Donald I. (*with* Steger, Tim) A family of $\tilde{A}_n$-groups. (English summary) **99e:20040**
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Wiedorn, Corinna A semiclassical parabolic system related to F_4. **99k:20061**
— Some semiclassical parabolic systems of rank 4. **99k:20062**
Xia, Jian Guo Finite M-SCABS and buildings. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20E42

Abramenko, Peter (*with* Ronan, Mark) A characterization of twin buildings by twin apartments. (English summary) **99m:51016**
Adem, Alejandro Buildings, group extensions and the cohomology of congruence subgroups. **99g:20095**
Austin, Peter C. Products of involutions in the groups of Lie type $F_4(K)$. (English summary) **99k:20034**
Brown, Paul R. Buildings and non-positively curved polygons of finite groups. (English summary) **99m:20079**
Buekenhout, Francis La relation des groupes simples finis et de la géométrie d'incidence. [The relation of finite simple groups and incidence geometry] **99c:20011**
Corson, Jon M. (*with* Spieler, Barry S.) The qsf property and group actions via complexes of spaces. **99f:57044**
Hatcher, Allen (*with* Vogtmann, Karen) The complex of free factors of a free group. **99i:20038**
Lempken, Wolfgang (*with* Parker, Christopher W.; Rowley, Peter J.) Minimal parabolic systems for the symmetric and alternating groups. (English summary) **99h:20020**
Lubotzky, A. (*with* Weigel, Thomas) Lattices of minimal covolume in SL_2 over local fields. **99k:22017**
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Plesken, Wilhelm Finite rational matrix groups: a survey. (English summary) **99h:20083**
Ramagge, Jacqui (*with* Robertson, A. Guyan; Steger, Tim) A Haagerup inequality for $\tilde{A}_1 \times \tilde{A}_1$ and $\tilde{A}_2$ buildings. (English summary) **99j:20046**
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Schneider, Peter[1] Verdier duality on the building. **99m:20097**
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Van Maldeghem, Hendrik (*with* Van Steen, K.) Moufang affine buildings have Moufang spherical buildings at infinity. (English summary) **99b:51009**
— (*with* Van Steen, K.) Characterizations by automorphism groups of some rank 3 buildings. I. Some properties of half strongly-transitive triangle buildings. (English summary) **99m:51019**
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20E99 None of the above, but in this section

Liang, Ke Dixmier algebras, an inductive derivation process for orbital data and its applications. (Chinese)
Singh, Janeshwar (*with* Singh, Krishna Kumar; Singh, Tarkeshwar[1]) Direct product and Hopficity of groups. (English summary)
Singh, Krishna Kumar *see* **Singh, Janeshwar; et al.**
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Items with secondary classifications in 20E99

Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.; de la Harpe, Pierre) Décompositions paradoxales des groupes de Burnside. (English and French summaries) [Paradoxical decompositions of free Burnside groups] **99i:20043**
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20Fxx Special aspects of infinite or finite groups

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Allcock, Daniel Spotting infinite groups. (English summary) **99h:20054**
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Becker, Jennifer (*with* Horak, Matthew; Van Wyk, Leonard) Presentations of subgroups of Artin groups. (English summary) **99f:20052**
Bevis, Jean (*with* Grady, Michael) Toroidal maps of modular quotient groups. (English summary) **99f:20053**
Brinkman, John Generators of order two for B_n and three of its double covers. **99c:20036**
Campbell, Colin Matthew (*with* Miyamoto, Izumi; Robertson, Edmund; Williams, P. D.) The efficiency of $PSL(2, p)^3$ and other direct products of groups. **99c:20037**
Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.; de la Harpe, Pierre) Décompositions paradoxales des groupes de Burnside. (English and French summaries) [Paradoxical decompositions of free Burnside groups] **99i:20043**

Chalk, Christopher P. Fibonacci groups with aspherical presentations. **99c:20038**
Cherix, Pierre-Alain (*with* Schaeffer, Gilles) An asymptotic Freiheitssatz for finitely generated groups. (English summary) **99m:20066**
Dalla Volta, Francesca (*with* Lucchini, Andrea) Finite groups that need more generators than any proper quotient. (English summary) **99a:20030**
Dikici, Ramazan (*with* Özkan, Engin) General recurrences in modular groups. (English and Turkish summaries)
Evans, Martin J. Relation modules of infinite groups. **99k:20063**
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— *see also* **Ceccherini-Silberstein, Tullio G.; et al., 99i:20043**
Guba, V. S. Polynomial upper bounds for the Dehn function of R. Thompson's group F. (English summary) **99j:20037**
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Howie, James Free subgroups in groups of small deficiency. **99e:20041**
Hrabě de Angelis, Jörg A presentation and a representation of the Held group. (English summary) (*see* **99e:00015**)
Ivanov, Sergei Vladimir On aspherical presentations of groups. (English summary) **99m:20067**
Johnson, David Lawrence (*with* Kim, Ann Chi; O'Brien, E. A.) Certain cyclically presented groups are isomorphic. (English summary)
Kim, Ann Chi *see* **Johnson, David Lawrence; et al.**
Klyachko, Anton Alexandrovich (*with* Prishchepov, M. I.) The descent method for equations over groups. (Russian) **99g:20052**
Kovács, L. G. Finite groups with trivial multiplicator and large deficiency. (English summary) **99d:20043**
Kuksov, Dmitri On rationality of the cogrowth series. (English summary) **99a:20031**
Levy, Joshua David (*with* Parker, Cameron; Van Wyk, Leonard) Finite presentations of subgroups of graph groups. (English summary) **99d:20044**
Liriano, Sal Algebraic geometric invariants for a class of one-relator groups. (English summary) **99g:20053**
Liu, He Guo Infinite solvable SD_3-groups. (Chinese. English and Chinese summaries) **99k:20064**
Lo, Eddie H. A polycyclic quotient algorithm. (English summary) **99c:20040**
Lucchini, Andrea Generating minimally transitive groups. (English summary) **99g:20054**
— *see also* **Dalla Volta, Francesca, 99a:20030**
Metaftsis, Vasileios (*with* Miyamoto, Izumi) One-relator products of two groups of order three with short relators. **99d:20045**
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Sharp, Richard Relative growth series in some hyperbolic groups. **99g:20055**
Spaggiari, Fulvia On certain classes of finite groups. (English summary) **99c:20041**
Steinbach, Anja Ingrid Subgroups of classical groups generated by transvections or Siegel transvections I. Embeddings in linear groups. (English summary) **99c:20042**
— Subgroups of classical groups generated by transvections or Siegel transvections. II. Embeddings in orthogonal groups. (English summary) **99c:20043**
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Strogova, Polina Finding a finite group presentation using rewriting. **99d:20046**
Szwarc, Ryszard The ratio and generating function of cogrowth coefficients of finitely generated groups. (English summary) **99d:20047**
Tieudjo, D. (*with* Moldavanskiĭ, David I.) Endomorphisms of the group $G_{mn} = \langle a, b;\ [a^m, b^n] = 1\rangle\ m, n > 1$. (English summary) **99i:20044**
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Vatansever, Bilal Efficient presentations of the group $\mathrm{PSL}(2, Z_n) \times \mathrm{PSL}(2, Z_m)$, for certain n, m. (English summary) **99a:20032**
— (*with* Gill, David M.) Almost efficient presentations of the groups $\mathrm{PSL}(2, p) \times A_4$ for all primes p, $p \geq 5$. (English summary) **99h:20055**
Virotte Ducharme, M.-M. Présentation fischérienne de certaines extensions non scindées de groupes orthogonaux sur $\mathbf{F}_3$. (English and Italian summaries) [Fischer presentation of certain nonsplit extensions of orthogonal groups over $\mathbf{F}_3$] **99b:20056**
Wang, Changqun (*with* Wang, Dianjun; Xu, Ming-Yao) Normal Cayley graphs of finite groups. (English summary) **99g:20056**
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Zara, François Generalized reflection groups. I. Constructing the algebra. (English summary) **99g:20057**
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Zieschang, Heiner On the Nielsen and Whitehead methods in combinatorial group theory and topology. (English summary) **99g:20059**

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Allcock, Daniel (*with* Gersten, S. M.) A homological characterization of hyperbolic groups. (English summary) **99m:20078**
Anokhin, M. I. On the word problem and the conjugacy problem for groups of the form $F/V(R)$. (Russian. Russian summary) **99g:20060**
Bagiński, Czesław On the Burnside problems. (Polish) **99e:20050**
Bardakov, V. G. On the width of verbal subgroups of some free constructions. (Russian. Russian summary) **99c:20024**
Baumeister, Barbara (*with* Stroth, Gernot) The non-canonical gluings of two affine spaces. (English summary) **99k:51013**
Behr, Helmut Arithmetic groups over function fields. I. A complete characterization of finitely generated and finitely presented arithmetic subgroups of reductive algebraic groups. (English summary) **99g:20088**
Benyash-Krivets, V. V. On the decomposition of the free product of cyclic groups with one relation into an amalgamated free product. (Russian. Russian summary) **99m:20050**
Birget, Jean-Camille Infinite string rewrite systems and complexity. (English summary) **99d:20093**
Birman, Joan S. (*with* Ko, Ki Hyoung; Lee, Sang Jin) A new approach to the word and conjugacy problems in the braid groups. (English summary) **99m:20082**
Bleiler, Steven A. (*with* Jones, Amelia C.) The free product of groups with amalgamated subgroup malnormal in a single factor. (English summary) **99f:20041**
Bowditch, Brian H. Continuously many quasi-isometry classes of 2-generator groups. (English summary) **99f:20062**
Brick, Stephen G. (*with* Corson, Jon M.) Dehn functions and complexes of groups. (English summary) **99e:20042**
Brown, Ronald (*with* Porter, Timothy) On the Schreier theory of non-abelian extensions: generalisations and computations. (English summary) **99j:20057**
Campbell, Colin Matthew (*with* Havas, George; Linton, Stephen; Robertson, Edmund) Symmetric presentations and orthogonal groups. (English summary) **99m:20112**
Conway, John H. (*with* Simons, Christopher S.) Relations in M_{666}. (English summary) **99i:20020**
Corson, Jon M. *see* **Brick, Stephen G., 99e:20042**
Curtis, Robert T. A survey of symmetric generation of sporadic simple groups. (English summary) **99m:20023**
Dicks, Warren (*with* Glover, H. H.) An algorithm for cellular maps of closed surfaces. (English summary) **99e:57001**
— (*with* Leary, Ian J.) Presentations for subgroups of Artin groups. (English summary) **99c:20050**
Dougherty, Randall (*with* Mycielski, Jan) Representations of infinite permutations by words. II. (English summary) **99j:20002**
Druţu, Cornelia Remplissage dans des réseaux de **Q**-rang 1 et dans des groupes résolubles. (English summary) [Filling in lattices of **Q**-rank 1 and in solvable groups] **99m:22009**
Dunwoody, M. J. (*with* Jones, J. Mary) A group with strange decomposition properties. **99d:20036**
Eckmann, Beno 4-manifolds, group invariants, and l_2-Betti numbers. (English summary) **99b:57002**
Ellis, Graham J. (*with* Leonard, Frank) Computing Schur multipliers and tensor products of finite groups. (English summary) **99h:20084**
Feng, Yan-Quan (*with* Gao, Tai-Ping) Automorphism groups and isomorphisms of Cayley digraphs of abelian groups. (English summary) **99h:20043**
Ganief, Shahiem (*with* Moori, Jamshid) 2-generations of the fourth Janko group J_4. (English summary) **99m:20024**
Gao, Tai-Ping *see* **Feng, Yan-Quan, 99h:20043**
Gersten, S. M. *see* **Allcock, Daniel, 99m:20078**
Glover, H. H. *see* **Dicks, Warren, 99e:57001**
Havas, George *see* **Campbell, Colin Matthew; et al., 99m:20112**
Higuchi, Osamu (*with* Miyamoto, Izumi) The 2-generators for certain simple permutation groups of small degree. (English summary) **99f:20004**
Işık, Ahmet (*with* Kaplan, Abdullah) Fibonacci sequences in Hecke groups $\Gamma(\lambda_n)$. (English summary)
Jabbar, Abdul (2, 3, 7)-subgroups of the Conway group Co_1. **99g:20030**
Jamali, Ali-Reza The non-abelian simple groups G, $|G| < 10^6$, minimal C-generator pairs, symmetric presentations. (English summary) **99c:20012**
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Kaplan, Abdullah *see* **Işık, Ahmet**
Kim, Goansu (*with* Tang, Francis C. Y.) On generalized free products of residually finite p-groups. (English summary) **99a:20028**
Klyachko, Anton Alexandrovich Asphericity tests. (English summary) **99d:20059**
Ko, Ki Hyoung *see* **Birman, Joan S.; et al., 99m:20082**
Leary, Ian J. *see* **Dicks, Warren, 99c:20050**
Lee, Sang Jin *see* **Birman, Joan S.; et al., 99m:20082**
Leonard, Frank *see* **Ellis, Graham J., 99h:20084**
Linton, Stephen *see* **Campbell, Colin Matthew; et al., 99m:20112**
Lott, John Deficiencies of lattice subgroups of Lie groups. (English summary) **99m:22011**
Luo, Feng[1] A presentation of the mapping class groups. (English summary) **99b:57031**
Ma, Hai-Cheng On isomorphisms of Cayley digraphs on dicyclic groups. (English summary) **99h:20046**
McMullen, Peter The groups of the regular star-polytopes. (English summary) **99f:52016**
Miyamoto, Izumi *see* **Higuchi, Osamu, 99f:20004**
Moori, Jamshid *see* **Ganief, Shahiem, 99m:20024**
Moulton, Vincent L. Vector braids. (English summary) **99f:57001**
Mycielski, Jan *see* **Dougherty, Randall, 99j:20002**
Nikolaev, I. V. Finite groups and flows on 2-manifolds. (English summary) **99g:58108**
Ol'shanskiĭ, A. Yu. On the distortion of subgroups of finitely presented groups. (Russian. Russian summary) **99a:20038**
Plesken, Wilhelm (*with* Souvignier, B.) Analysing finitely presented groups by constructing representations. (English summary) **99h:20009**
— (*with* Souvignier, B.) Constructing representations of finite groups and applications to finitely presented groups. **99d:20013**

Porter, Timothy *see* **Brown, Ronald**, **99j:20057**
Pride, Stephen J. Geometric methods in combinatorial semigroup theory. **99d:20095**
Robertson, Edmund *see* **Campbell, Colin Matthew; et al.**, **99m:20112**
Ruškuc, N. (*with* Thomas, Richard M.) Syntactic and Rees indices of subsemigroups. (English summary) **99g:20101**
Shareshian, John On the probabilistic zeta function for finite groups. (English summary) **99k:20049**
Simons, Christopher S. *see* **Conway, John H.**, **99i:20020**
Souvignier, B. *see* **Plesken, Wilhelm**, **99d:20013** *and* **99h:20009**
Stroth, Gernot *see* **Baumeister, Barbara**, **99k:51013**
Tamburini Bellani, Maria Chiara (*with* Zucca, P.) Generation of certain matrix groups by three involutions, two of which commute. **99b:20029**
Tang, Francis C. Y. *see* **Kim, Goansu**, **99a:20028**
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Timmesfeld, Franz Georg Presentations for certain Chevalley groups. (English summary) **99m:20106**
Turner, Edward C. (*with* Voce, Daniel A.) Tame automorphisms of finitely generated abelian groups. (English summary) **99g:20100**
Vershinin, Vladimir V. On braid groups in handlebodies. (Russian. Russian summary) **99m:20083**
Voce, Daniel A. *see* **Turner, Edward C.**, **99g:20100**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Structure of a class of polynomial maps with invariant factors. **99c:14020**
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Worthington, R. L. The growth series of compact hyperbolic Coxeter groups with 4 and 5 generators. (English summary) **99e:20052**
Zucca, P. *see* **Tamburini Bellani, Maria Chiara**, **99b:20029**

20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Brick, Stephen G. (*with* Corson, Jon M.) Dehn functions and complexes of groups. (English summary) **99e:20042**
Corson, Jon M. *see* **Brick, Stephen G.**, **99e:20042**

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Arzhantseva, G. N. Generic properties of finitely presented groups and Howson's theorem. **99j:20036**
Chalk, Christopher P. Fibonacci groups with aspherical presentations. **99c:20038**
Guba, V. S. Polynomial upper bounds for the Dehn function of R. Thompson's group F. (English summary) **99j:20037**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]

Anokhin, M. I. On the word problem and the conjugacy problem for groups of the form $F/V(R)$. (Russian. Russian summary) **99g:20060**
Brick, Stephen G. (*with* Corson, Jon M.) Annular Dehn functions of groups. (English summary) **99m:20068**
Brunner, A. M. (*with* Sidki, Said) The generation of $GL(n, \mathbf{Z})$ by finite state automata. (English summary) **99f:20055**
Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.) Amenability and growth of one-relator groups. (English summary) **99b:20057**
Corson, Jon M. *see* **Brick, Stephen G.**, **99m:20068**
Grigorchuk, Rostislav I. *see* **Ceccherini-Silberstein, Tullio G.**, **99b:20057**
Holt, Derek F. (*with* Hurt, Darren F.) Computing automatic coset systems and subgroup presentations. (English summary) **99j:20038**
Hurt, Darren F. *see* **Holt, Derek F.**, **99j:20038**
Kharlampovich, Olga (*with* Myasnikov, A. G.) Equations in a free Q-group. **99j:20039a**
— (*with* Lioutikova, E.; Myasnikov, A. G.) Equations in the Q-completion of a torsion-free hyperbolic group. **99j:20039b**
Lioutikova, E. *see* **Kharlampovich, Olga; et al.**, **99j:20039b**
Margolis, Stuart W. (*with* Meakin, J.; Sapir, Mark V.) Algorithmic problems in groups, semigroups and inverse semigroups. **99e:20043**
Meakin, J. *see* **Margolis, Stuart W.; et al.**, **99e:20043**
Moghaddam, Mohammad Reza R. (*with* Salemkar, Ali Reza) Some remarks on generalized Schur pairs. (English summary) **99f:20056**
Myasnikov, A. G. *see* **Kharlampovich, Olga**, **99j:20039a** *and* **99j:20039b**
Rees, Sarah Hairdressing in groups: a survey of combings and formal languages. (English summary) **99m:20069**
— Automatic groups associated with word orders other than shortlex. (English summary) **99m:20070**
Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R.**, **99f:20056**
Sapir, Mark V. *see* **Margolis, Stuart W.; et al.**, **99e:20043**
Sidki, Said *see* **Brunner, A. M.**, **99f:20055**

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Altobelli, Joseph A. The word problem for Artin groups of FC type. (English summary) **99f:20064**
Birman, Joan S. (*with* Ko, Ki Hyoung; Lee, Sang Jin) A new approach to the word and conjugacy problems in the braid groups. (English summary) **99m:20082**
Burillo, José Quasi-isometrically embedded subgroups of Thompson's group F. (English summary) **99m:20051**
Chermak, Andrew Locally non-spherical Artin groups. **99e:20046**
Comtet, Alain (*with* Nechaev, Sergei) Random operator approach for word enumeration in braid groups. (English summary) **99k:82041**
Farb, Benson Relatively hyperbolic groups. **99j:20043**
Kharlampovich, Olga (*with* Myasnikov, A. G.) Tarski's problem about the elementary theory of free groups has a positive solution. (English summary) **99k:20051**
— (*with* Myasnikov, A. G.) Description of fully residually free groups and irreducible affine varieties over a free group. **99j:20032**
Ko, Ki Hyoung *see* **Birman, Joan S.; et al.**, **99m:20082**
Kościelski, Antoni (*with* Pacholski, Leszek) Makanin's algorithm is not primitive recursive. (English summary) **99c:03065**
Lee, Sang Jin *see* **Birman, Joan S.; et al.**, **99m:20082**
Myasnikov, A. G. *see* **Kharlampovich, Olga**, **99j:20032** *and* **99k:20051**
Nechaev, Sergei *see* **Comtet, Alain**, **99k:82041**
Pacholski, Leszek *see* **Kościelski, Antoni**, **99c:03065**
Rozhkov, A. V. Metric relations in groups of tree automorphisms. (Russian. Russian summary) **99m:20055**
Szwarc, Ryszard The ratio and generating function of cogrowth coefficients of finitely generated groups. (English summary) **99d:20047**
Wilson, John S. (*with* Zalesskii, P. A.) Conjugacy separability of certain Bianchi groups and HNN extensions. **99b:20054**
Zalesskii, P. A. *see* **Wilson, John S.**, **99b:20054**

20F12 Commutator calculus

Korlyukov, A. V. Representation of a five-multiple commutator as a product of four powers. (Russian. Russian summary) (*see* **99g:20002**)
Nicotera, Chiara On groups with a permutational property on commutators of weight 4. (English summary) **99b:20058**

Items with secondary classifications in 20F12

Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.) Amenability and growth of one-relator groups. (English summary) **99b:20057**
Grigorchuk, Rostislav I. *see* **Ceccherini-Silberstein, Tullio G.**, **99b:20057**
Mashayekhy, Behrooz The Baer-invariant of a semidirect product. (English summary) **99d:20040**
Newell, Martin L. On right-Engel elements of length three. (English summary) **99h:20063**
Nicotera, Chiara A note on rewritability of commutators in nilpotent groups. (English summary) **99d:20053**
Traustason, Gunnar On groups in which every subgroup is subnormal of defect at most three. (English summary) **99d:20054**
Yakovlev, E. V. On the commutator structure of generalized carpet subgroups of two-dimensional linear groups. (Russian) **99f:20081**

20F14 Derived series, central series, and generalizations

Burns, John M. (*with* Ellis, Graham J.; MacHale, Desmond; Ó Murchú, P.; Sheehy, R.; Wiegold, James) Lower central series of groups with small upper central factors. (English summary) **99g:20061**
Cutolo, Giovanni (*with* Lennox, John C.; Rinauro, Silvana; Smith, Howard; Wiegold, James) On infinite core-finite groups. (English summary) **99g:20062**
Ellis, Graham J. On Peiffer central series. **99h:20056**
— *see also* **Burns, John M.; et al.**, **99g:20061**
Leibman, Alexander Polynomial sequences in groups. (English summary) **99c:20044**
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Ó Murchú, P. *see* **Burns, John M.; et al.**, **99g:20061**
Rinauro, Silvana *see* **Cutolo, Giovanni; et al.**, **99g:20062**
Sheehy, R. *see* **Burns, John M.; et al.**, **99g:20061**
Smith, Howard *see* **Cutolo, Giovanni; et al.**, **99g:20062**
Tan, Geok-Choo P-nilpotent completion is not idempotent. (English summary) **99i:20045**
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Items with secondary classifications in 20F14

Bryce, R. A. (*with* Cossey, John) A note on groups with Hamiltonian quotients. (English summary) **99k:20042**
Cossey, John *see* **Bryce, R. A.**, **99k:20042**
Liu, He Guo Fitting subgroups of polycyclic groups. (Chinese. English and Chinese summaries) **99m:20072**
Shumyatskiĭ, P. V. On residually finite groups in which commutators are Engel. (English summary) **99m:20064**
Wojtkowiak, Zdzisław Monodromy of iterated integrals and non-abelian unipotent periods. **99m:14024**

20F16 Solvable groups, supersolvable groups

Altinel, Tuna (*with* Cherlin, Gregory; Corredor, Luis-Jaime; Nesin, Ali) A Hall theorem for ω-stable groups. **99f:20057**
Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.) Sufficient conditions for supersolubility of finite groups. (English summary) **99d:20048**
Beidleman, James C. (*with* Robinson, Derek J. S.) The permutizer condition in infinite soluble groups. (English summary) **99m:20071**
Cherlin, Gregory *see* **Altinel, Tuna; et al.**, **99f:20057**
Corredor, Luis-Jaime *see* **Altinel, Tuna; et al.**, **99f:20057**
Detomi, Eloisa On some products of nilpotent groups. (English summary) **99g:20063**
Endimioni, Gérard On the nilpotent length of polycyclic groups. (English summary) **99g:20064**
Guo, Xiuyun On Deskins's conjecture. (English summary) **99b:20059b**
Kuleshov, N. I. Characterization of finite supersolvable groups with abelian Sylow subgroups. (Russian. English summary) (*see* **99g:20004**)
— *see also* **Vedernikov, V. A.**, **99h:20057**
Liu, He Guo Abelian subgroups of hyperabelian groups. (Chinese. Chinese summary) **99f:20058**

— Fitting subgroups of polycyclic groups. (Chinese. English and Chinese summaries) **99m:20072**
— Solvable groups whose finitely generated subgroups are 3-generated. (Chinese. Chinese summary) **99c:20045**
— Solvable groups with breadth ≤ 2. (Chinese. Chinese summary) **99f:20059**
Nesin, Ali *see* **Altinel, Tuna; et al., 99f:20057**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A., 99d:20048**
Robinson, Derek J. S. *see* **Beidleman, James C., 99m:20071**
Timoshenko, E. I. On the definability of the endomorphisms of a free group of the variety $\mathfrak{AM}$ by a finite set of values. (Russian. Russian summary) **99d:20049**
Vedernikov, V. A. (*with* Kuleshov, N. I.) Characterization of finite supersolvable groups. (Russian. English summary) **99h:20057**
Zhao, Yaoqing On Deskins's conjecture concerning the supersolvability of a finite group. (English summary) **99b:20059a**

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Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.; Pedraza-Aguilera, M. C.) Mutually permutable products of finite groups. **99k:20046**
Bhattacharya, Prabir B. *see* **Mukherjee, N. P., 99a:20015**
Chen, Zhongmu Generalization of the Schur-Zassenhaus theorem. (English and Chinese summaries) **99h:20039**
Dashkova, O. Yu. Groups of finite nonabelian sectional rank. (Russian. English and Ukrainian summaries) **99k:20080**
Dekimpe, Karel (*with* Igodt, Paul) Polycyclic-by-finite groups admit a bounded-degree polynomial structure. (English summary) **99c:20071**
Detinko, A. S. Imprimitive solvable subgroups of classical groups. (Russian. English summary) **99h:20073**
Emmanouil, Ioannis Solvable groups and Bass' conjecture. (English and French summaries) **99h:19002**
Grunewald, Fritz (*with* Platonov, Vladimir Petrovich) Non-arithmetic polycyclic groups. (English and French summaries) **99i:20064**
— (*with* Platonov, Vladimir Petrovich) Rigidity and automorphism groups of solvable arithmetic groups. (English and French summaries) **99i:20065**
Igodt, Paul *see* **Dekimpe, Karel, 99c:20071**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups with the weak minimal condition for non-subnormal subgroups. (English summary) **99e:20044**
Kurnosenko, N. M. On the factorization of finite groups by supersolvable and nilpotent subgroups. (Russian. English summary) **99j:20030**
Lewis, Mark L. Derived lengths of solvable groups satisfying the one-prime hypothesis. **99d:20011**
Li, Shirong On minimal subgroups of finite groups. III. **99e:20027**
Monakhov, V. S. Finite groups with supersolvable subgroups of even index. (Russian. English summary) **99j:20025**
— On the product of two groups with cyclic subgroups of index 2. (Russian. English and Russian summaries) **99b:20039**
Mukherjee, N. P. (*with* Bhattacharya, Prabir B.) On formations of finite supersolvable groups. (English summary) **99a:20015**
Noskov, G. A. The Bieri-Strebel invariant and homological finiteness conditions for metabelian groups. (Russian. Russian summary) **99d:20080**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A.; et al., 99k:20046**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A.; et al., 99k:20046**
Platonov, Vladimir Petrovich *see* **Grunewald, Fritz, 99i:20064** *and* **99i:20065**
Ramadan, Mohamed On the hypercenter and hyperquasicenter of a finite group. (English and Arabic summaries) **99d:20031**
Shalev, Aner On the degree of groups of polynomial subgroup growth. (English summary) **99m:20063**
Smith, Howard *see* **Kurdachenko, Leonid A., 99e:20044**
Strojnowski, Andrzej On residually finite groups and their generalizations. (English summary) **99k:20059**
Timoshenko, E. I. On primitive elements of free groups of the varieties $\mathfrak{AN}_n$. (Russian. Russian summary) **99g:20048**
Vasil'ev, A. F. (*with* Vasil'eva, T. I.) On finite groups in which the principal factors are simple groups. (Russian) **99d:20026**
Vasil'eva, T. I. *see* **Vasil'ev, A. F., 99d:20026**
Wang, Kun Ren The product of two supersolvable groups. (Chinese. English and Chinese summaries) **99m:20041**

20F17 Formations of groups, Fitting classes [see also 20D10]

Arroyo-Jordá, P. (*with* Martínez-Pastor, A.) On certain actions of groups and injective Fitting sets. **99d:20050**
Martínez-Pastor, A. *see* **Arroyo-Jordá, P., 99d:20050**
Ryzhik, V. N. *see* **Skiba, A. N., 99i:20046**
Safonova, I. N. On minimal ω-local nonsupersolvable formations. (Russian. English summary) **99k:20066**
Skiba, A. N. On complemented subformations. (Russian. English summary) **99h:20058**
— (*with* Ryzhik, V. N.) Factorizations of p-local formations. (Russian. English summary) **99i:20046**

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Altinel, Tuna (*with* Cherlin, Gregory; Corredor, Luis-Jaime; Nesin, Ali) A Hall theorem for ω-stable groups. **99f:20057**
Asaad, M. On maximal subgroups of Sylow subgroups of finite groups. **99k:20039**
Bechtell, H. (*with* Hofmann, Mark C.) Kernels of formations. (English summary) **99h:20025**
Cherlin, Gregory *see* **Altinel, Tuna; et al., 99f:20057**
Corredor, Luis-Jaime *see* **Altinel, Tuna; et al., 99f:20057**
D'Aniello, Alma On normal Fitting classes. (English summary) **99c:20015**
Hofmann, Mark C. *see* **Bechtell, H., 99h:20025**
Kurdachenko, Leonid A. (*with* Petrenko, B. V.; Subbotin, Igor Ya.) Direct decompositions in Artinian modules over FC-hypercentral groups. (English summary) **99k:20009**
Nesin, Ali *see* **Altinel, Tuna; et al., 99f:20057**
Petrenko, B. V. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**
Polyakov, L. Ya. (*with* Semenchuk, V. N.) Characterization of minimal non-$\mathfrak{F}$-groups. (Russian) **99f:20028**
Semenchuk, V. N. *see* **Polyakov, L. Ya., 99f:20028**
Subbotin, Igor Ya. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**
Traustason, Gunnar A note on supersoluble Fitting classes. (English summary) **99a:20016**

20F18 Nilpotent groups

Ali, Zafar (*with* Majeed, Abdul) On the laws of nilpotent pointed-groups. (English summary) **99m:20073**
Conner, Gregory R. Properties of translation numbers in nilpotent groups. **99d:20051**
Dörfer, Martin (*with* Rosenberger, Gerhard) Zeta function of finitely generated nilpotent groups. **99b:20060**
Ellis, Graham J. On groups with a finite nilpotent upper central quotient. (English summary) **99a:20033**
Falbel, Elisha (*with* Koseleff, Pierre-Vincent) The number of sides of a parallelogram. (English summary) **99j:20040**
Freedman, Michael Hartley (*with* Hain, Richard M.; Teichner, Peter) Betti number estimates for nilpotent groups. (English summary) **99d:20052**
Hain, Richard M. *see* **Freedman, Michael Hartley; et al., 99d:20052**
Koseleff, Pierre-Vincent *see* **Falbel, Elisha, 99j:20040**
Majeed, Abdul *see* **Ali, Zafar, 99m:20073**
Mashayekhy, Behrooz A remark on generalized covering groups. (English summary) **99g:20065**
Nicotera, Chiara A note on rewritability of commutators in nilpotent groups. (English summary) **99d:20053**
Oger, Francis Elementary equivalence for finitely generated nilpotent groups and multilinear maps. (English summary) **99k:20067**
Rosenberger, Gerhard *see* **Dörfer, Martin, 99b:20060**
Scevenels, Dirk On the Mislin genus of a certain class of nilpotent groups. **99i:20047**
Stoll, Michael On the asymptotics of the growth of 2-step nilpotent groups. (English summary) **99k:20068**
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Traustason, Gunnar On groups in which every subgroup is subnormal of defect at most three. (English summary) **99d:20054**
Witbooi, P. J. Groups for which every subquotient is (co-)Hopfian. (English summary) **99k:20069**

Items with secondary classifications in 20F18

Ammann, Bernd Minimal geodesics and nilpotent fundamental groups. (English summary) **99a:53050**
Detomi, Eloisa On some products of nilpotent groups. (English summary) **99g:20063**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally soluble-by-finite groups with all proper non-nilpotent subgroups of finite rank. (English summary) **99k:20058**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 99k:20058**
Han, Sang-Eon On the R-good property of the space satisfying condition (T^{**}).
Leedham-Green, Charles (*with* Soicher, Leonard H.) Symbolic collection using Deep Thought. (English summary) **99f:20002**
Newell, Martin L. On right-Engel elements of length three. (English summary) **99h:20063**
Raptis, E. (*with* Varsos, D.) On the profinite topology of the automorphism group of a residually torsion free nilpotent group. (English summary) **99h:20061**
do Rocio, Osvaldo Germano Maximal semigroups in finitely generated nilpotent groups. (English summary) **99f:20109**
Smith, Howard *see* **Dixon, Martyn R.; et al., 99k:20058**
Soicher, Leonard H. *see* **Leedham-Green, Charles, 99f:20002**
Varsos, D. *see* **Raptis, E., 99h:20061**

20F19 Generalizations of solvable and nilpotent groups

Amberg, Bernhard (*with* Dickenschied, O.; Sysak, Yaroslav P.) Subgroups of the adjoint group of a radical ring. (English summary) **99d:20055**
Asar, Ali Osman (*with* Yalıncakhoğlu, A.) Locally nilpotent p-groups whose proper subgroups are NC-groups. (English summary) **99g:20066**
Beidleman, James C. (*with* Galoppo, Annalisa; Manfredino, M.) On PC-hypercentral and CC-hypercentral groups. (English summary) **99g:20067**
Black, Sarah A finitary Tits' alternative. (English summary) **99k:20070**
Bludov, V. V. On locally nilpotent groups [translation of Trudy Instituta Matematiki, Vol. 30, 26–47, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99m:20074**
Chen, Jin Zhi (*with* Yang, Cheng) Quasi-nilpotent groups. (Chinese. English and Chinese summaries) **99f:20060**
Chernikov, N. S. Generalized solvable and generalized π-solvable factorizable groups. (Russian. English summary) **99h:20059**
— Periodic locally solvable groups that are factorizable by two locally nilpotent subgroups. (Russian. English summary) **99i:20048**
Dickenschied, O. *see* **Amberg, Bernhard; et al., 99d:20055**
Fay, Temple H. (*with* Walls, Gary L.) $\overline{R}$-groups. (English summary) **99m:20075**
Galoppo, Annalisa *see* **Beidleman, James C.; et al., 99g:20067**
Höfling, Burkhard Periodic radical products of two locally nilpotent subgroups. **99g:20068**
Kurdachenko, Leonid A. (*with* Subbotin, Igor Ya.) Groups whose proper quotients are hypercentral. (English summary) **99h:20060**
Manfredino, M. *see* **Beidleman, James C.; et al., 99g:20067**
Subbotin, Igor Ya. *see* **Kurdachenko, Leonid A., 99h:20060**
Sysak, Yaroslav P. Radical modules over hyperabelian groups of finite torsion-free rank. (English summary) **99c:20046**
— *see also* **Amberg, Bernhard; et al., 99d:20055**

Walls, Gary L. *see* **Fay, Temple H., 99m:20075**
Yalıncakhoğlu, A. *see* **Asar, Ali Osman, 99g:20066**
Yang, Cheng *see* **Chen, Jin Zhi, 99f:20060**

Items with secondary classifications in 20F19

Derakhshan, Jamshid (*with* Wagner, Frank O.) Nilpotency in groups with chain conditions. **99b:20047**
Heineken, Hermann Groups with neighbourhood conditions for certain lattices. **99k:20056**
Liu, He Guo Abelian subgroups of hyperabelian groups. (Chinese. Chinese summary) **99f:20058**
Longobardi, Patrizia (*with* Maj, Mercede; Smith, Howard) Locally nilpotent groups with all subgroups normal-by-(finite rank). (English summary) **99e:20038**
Lucchini, Andrea (*with* Puglisi, Orazio) A note on groups satisfying the congruence intersection property. (English summary) **99h:20051**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 99e:20038**
Monakhov, V. S. Finite groups with 2-nilpotent subgroups of even index. (Russian. Russian summary) **99h:20048**
Newell, Martin L. On right-Engel elements of length three. (English summary) **99h:20063**
Puglisi, Orazio *see* **Lucchini, Andrea, 99h:20051**
Shumyatskiĭ, P. V. On residually finite groups in which commutators are Engel. (English summary) **99m:20064**
Smith, Howard *see* **Longobardi, Patrizia; et al., 99e:20038**
Wagner, Frank O. *see* **Derakhshan, Jamshid, 99b:20047**

20F22 Other classes of groups defined by subgroup chains

Galoppo, Annalisa Groups with many normal or self-normalizing subgroups. (English summary) **99m:20076**
Kazarin, Lev S. (*with* Kurdachenko, Leonid A.; Subbotin, Igor Ya.) On groups saturated with abelian subgroups. (English summary) **99j:20041**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups with the weak minimal condition for non-subnormal subgroups. (English summary) **99e:20044**
— *see also* **Kazarin, Lev S.; et al., 99j:20041**
Smith, Howard *see* **Kurdachenko, Leonid A., 99e:20044**
Subbotin, Igor Ya. *see* **Kazarin, Lev S.; et al., 99j:20041**

Items with secondary classifications in 20F22

Sysak, Yaroslav P. Radical modules over hyperabelian groups of finite torsion-free rank. (English summary) **99c:20046**

20F24 FC-groups and their generalizations

Belyaev, V. V. On the existence of minimal non-FC-groups. (Russian. Russian summary) **99k:20071**
Franciosi, Silvana (*with* de Giovanni, Francesco; Kurdachenko, Leonid A.) Groups with finite conjugacy classes of non-subnormal subgroups. (English summary) **99b:20061**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 99b:20061**
Kurdachenko, Leonid A. (*with* Otal, Javier) Some Noetherian modules and non-monolithic just non-CC-groups. **99k:20072**
— *see also* **Franciosi, Silvana; et al., 99b:20061**
La Haye, Roberta Some explicit bounds in groups with a finite number of non-normal subgroups. (English summary) **99a:20034**
Mohammadi Hassanabadi, A. (*with* Rhemtulla, Akbar H.) Criteria for commutativity in large groups. (English summary) **99f:20061**
Otal, Javier *see* **Kurdachenko, Leonid A., 99k:20072**
Rhemtulla, Akbar H. *see* **Mohammadi Hassanabadi, A., 99f:20061**
Zhang, Zhi Rang Groups whose proper subgroups or proper quotients have finite classes of isomorphic subgroups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20F24

Beidleman, James C. (*with* Galoppo, Annalisa; Manfredino, M.) On PC-hypercentral and CC-hypercentral groups. (English summary) **99g:20067**
Galoppo, Annalisa *see* **Beidleman, James C.; et al., 99g:20067**
Grunewald, Fritz (*with* Platonov, Vladimir Petrovich) On finite extensions of arithmetic groups. (English and French summaries) **99a:20045**
Heineken, Hermann Groups with neighbourhood conditions for certain lattices. **99k:20056**
Kurdachenko, Leonid A. (*with* Petrenko, B. V.; Subbotin, Igor Ya.) Direct decompositions in Artinian modules over FC-hypercentral groups. (English summary) **99k:20009**
Manfredino, M. *see* **Beidleman, James C.; et al., 99g:20067**
Mazurov, Viktor Danilovich On sharply 2-transitive groups [translation of *Proceedings of the Institute of Mathematics, 30* (Russian), 114–118, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99b:20006**
Petrenko, B. V. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**
Platonov, Vladimir Petrovich *see* **Grunewald, Fritz, 99a:20045**
Subbotin, Igor Ya. *see* **Kurdachenko, Leonid A.; et al., 99k:20009**

20F28 Automorphism groups of groups [see also 20E36]

Brin, Matthew G. (*with* Guzmán, Fernando) Automorphisms of generalized Thompson groups. **99d:20056**
Bryant, Roger M. (*with* Roman'kov, V. A.) The automorphism groups of relatively free algebras. **99k:20073**
Göbel, Rüdiger (*with* Paras, Agnes T.) Automorphisms of metabelian groups with trivial center. **99d:20057**
Gutiérrez, Mauricio (*with* Krstić, Sava) Normal forms for basis-conjugating automorphisms of a free group. **99m:20077**
Guzmán, Fernando *see* **Brin, Matthew G., 99d:20056**
Krstić, Sava (*with* McCool, James) The non-finite presentability of the automorphism group of the free Z-group of rank two. **99a:20035**
— *see also* **Gutiérrez, Mauricio, 99m:20077**
McCool, James *see* **Krstić, Sava, 99a:20035**
Obraztsov, V. N. On a question of Deaconescu about automorphisms. III. **99j:20042**
Papistas, Athanassios I. Automorphisms of metabelian groups. (English summary) **99d:20058**
Paras, Agnes T. *see* **Göbel, Rüdiger, 99d:20057**
Raptis, E. (*with* Varsos, D.) On the profinite topology of the automorphism group of a residually torsion free nilpotent group. (English summary) **99h:20061**
Roman'kov, V. A. *see* **Bryant, Roger M., 99k:20073**
Thomas, Simon R. The automorphism tower problem. II. (English summary) **99h:20062**
Varsos, D. *see* **Raptis, E., 99h:20061**

Items with secondary classifications in 20F28

Arroyo-Jordá, P. (*with* Martínez-Pastor, A.) On certain actions of groups and injective Fitting sets. **99d:20050**
Ei, Hiromi (*with* Ito, Shunji) Decomposition theorem on invertible substitutions. **99k:20050**
Gaboriau, Damien (*with* Levitt, Gilbert; Lustig, Martin) A dendrological proof of the Scott conjecture for automorphisms of free groups. (English summary) **99d:20035**
Grunewald, Fritz (*with* Platonov, Vladimir Petrovich) Rigidity and automorphism groups of solvable arithmetic groups. (English and French summaries) **99i:20065**
Hatcher, Allen (*with* Vogtmann, Karen) Rational homology of $\mathrm{Aut}(F_n)$. (English summary) **99m:20127**
Isaacs, I. M. Large orbits in actions of nilpotent groups. (English summary) **99b:20035**
Ito, Shunji *see* **Ei, Hiromi, 99k:20050**
Ivanov, Sergei Vladimir On endomorphisms of free groups that preserve primitivity. (English summary) **99m:20047**
Kable, Anthony C. The main involutions of the metaplectic group. (English summary) **99f:20083**
Levitt, Gilbert (*with* Nicolas, Jean-Louis) On the maximum order of torsion elements in $\mathrm{GL}(n, \mathbf{Z})$ and $\mathrm{Aut}(F_n)$. (English summary) **99m:20111**
— *see also* **Gaboriau, Damien; et al., 99d:20035**
Liu, Shao Wu Automorphisms of singular symplectic groups over a field. (Chinese. Chinese summary) **99m:20105**
Lustig, Martin *see* **Gaboriau, Damien; et al., 99d:20035**
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Mateĭko, O. M. (*with* Tavgen′, O. I.) Linear representations of the automorphism groups of free groups. (Russian. English summary) **99k:20016**
— (*with* Tavgen′, O. I.) Linear representations of degrees 2 and 3 of the automorphism group of a free group of rank 2. (Russian. English and Russian summaries) **99c:20006**
Nicolas, Jean-Louis *see* **Levitt, Gilbert, 99m:20111**
Platonov, Vladimir Petrovich *see* **Grunewald, Fritz, 99i:20065**
Shpilrain, Vladimir Generalized primitive elements of a free group. (English summary) **99j:20033**
Tavgen′, O. I. *see* **Mateĭko, O. M., 99c:20006** *and* **99k:20016**
Vogtmann, Karen *see* **Hatcher, Allen, 99m:20127**
Zimmermann, Bruno Free products with amalgamation of finite groups and finite order automorphism groups of free groups. (English summary) **99f:20043**

20F29 Representations of groups as automorphism groups of algebraic systems

Items with secondary classifications in 20F29

Orevkov, S. Yu. Realizability of a braid monodromy by an algebraic function in a disk. (English and French summaries) **99m:32048**

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Allcock, Daniel (*with* Gersten, S. M.) A homological characterization of hyperbolic groups. (English summary) **99m:20078**
Alonso, Juan Manuel (*with* Bogley, W. A.; Burton, Robert M., Jr.; Pride, Stephen J.; Wang, Xiao Feng[1]) Second order Dehn functions of groups. **99c:20047**
Bartholdi, Laurent The growth of Grigorchuk's torsion group. **99i:20049**
Bogley, W. A. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Bowditch, Brian H. Cut points and canonical splittings of hyperbolic groups. **99g:20069**
— Continuously many quasi-isometry classes of 2-generator groups. (English summary) **99f:20062**
— A topological characterisation of hyperbolic groups. (English summary) **99c:20048**
Brown, Paul R. Buildings and non-positively curved polygons of finite groups. (English summary) **99m:20079**
Burton, Robert M., Jr. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Egorov, Andreĭ Vladimirovich Structural stability of free groups. **99e:20045**
Farb, Benson Relatively hyperbolic groups. **99j:20043**
Funar, Louis On discrete solvgroups and Poénaru's condition. (English summary) **99k:20074**
Gerasimov, V. N. Semi-splittings of groups and actions on cubings. (Russian. Russian summary) **99c:20049**
— Fixed-point-free actions on cubings [translation of *Algebra, geometry, analysis and mathematical physics (Russian) (Novosibirsk, 1996)*, 91–109, 190, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1997; MR 99c:20049]. (English summary)
Gersten, S. M. *see* **Allcock, Daniel, 99m:20078**
Guba, V. S. (*with* Sapir, Mark V.) On Dehn functions of free products of groups. (English summary) **99j:20044**
Hsu, Tim (*with* Wise, Daniel T.) Embedding theorems for non-positively curved polygons of finite groups. (English summary) **99a:20036**
Klyachko, Anton Alexandrovich Asphericity tests. (English summary) **99d:20059**
Koubi, Malik Croissance uniforme dans les groupes hyperboliques. (English and French summaries) [Uniform growth in hyperbolic groups] **99m:20080**
Meng, Ji-Xiang (*with* Xu, Ming-Yao) On the isomorphism problem of Cayley graphs of abelian groups. (English summary) **99j:20045**

Miller, Charles F., III (*with* Shapiro, Michael David) Solvable Baumslag-Solitar groups are not almost convex. (English summary) **99k:20075**
Mitra, Mahan On a theorem of Scott and Swarup. (English summary) **99i:20050**
Niblo, Graham A. (*with* Reeves, L. D.) The geometry of cube complexes and the complexity of their fundamental groups. (English summary) **99a:20037**
Ol'shanskiĭ, A. Yu. On the distortion of subgroups of finitely presented groups. (Russian. Russian summary) **99a:20038**
Pavone, Marco On the hyperbolic limit points of groups acting on hyperbolic spaces. (English summary) **99f:20063**
Pride, Stephen J. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Ramagge, Jacqui (*with* Robertson, A. Guyan; Steger, Tim) A Haagerup inequality for $\tilde{A}_1 \times \tilde{A}_1$ and $\tilde{A}_2$ buildings. (English summary) **99j:20046**
Reeves, L. D. *see* **Niblo, Graham A., 99a:20037**
Robertson, A. Guyan *see* **Ramagge, Jacqui; et al., 99j:20046**
Sapir, Mark V. *see* **Guba, V. S., 99j:20044**
Scott, Peter The symmetry of intersection numbers in group theory. (English summary) **99k:20076a**
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Sela, Z. Endomorphisms of hyperbolic groups. I. The Hopf property. (English summary) **99m:20081**
Shapiro, Michael David *see* **Miller, Charles F., III, 99k:20075**
Steger, Tim *see* **Ramagge, Jacqui; et al., 99j:20046**
Szczepański, Andrzej Relatively hyperbolic groups. **99i:20051**
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Items with secondary classifications in 20F32

Allcock, Daniel Spotting infinite groups. (English summary) **99h:20054**
Altobelli, Joseph A. The word problem for Artin groups of FC type. (English summary) **99f:20064**
Arzhantseva, G. N. Generic properties of finitely presented groups and Howson's theorem. **99j:20036**
Boulatov, Dimitri V. Three-dimensional simplicial gravity and combinatorics of group presentations. (English summary) **99i:83024**
Bowditch, Brian H. Group actions on trees and dendrons. **99i:20039**
Brady, Noel (*with* Farb, Benson) Filling-invariants at infinity for manifolds of nonpositive curvature. **99c:53039**
Brick, Stephen G. (*with* Corson, Jon M.) Annular Dehn functions of groups. (English summary) **99m:20068**
Bridson, Martin R. On the semisimplicity of polyhedral isometries. (English summary) **99m:53086**
Cao, Jianguo Topics in geometric analysis via Gromov's methods. (English and Chinese summaries) **99d:53038**
Conner, Gregory R. Properties of translation numbers in nilpotent groups. **99d:20051**
(Cooper, Daryl) *see* **Farb, Benson, 99b:57003**
Corson, Jon M. *see* **Brick, Stephen G., 99m:20068**
Farb, Benson (*with* Mosher, Lee) A rigidity theorem for the solvable Baumslag-Solitar groups. **99b:57003**
— *see also* **Brady, Noel, 99c:53039**
Fujiwara, Koji The second bounded cohomology of a group acting on a Gromov-hyperbolic space. **99c:20072**
Guba, V. S. Polynomial upper bounds for the Dehn function of R. Thompson's group F. (English summary) **99j:20037**
Guirardel, Vincent Approximations of stable actions on **R**-trees. (English summary) **99e:20037**
Gutiérrez, Mauricio (*with* Krstić, Sava) Normal forms for basis-conjugating automorphisms of a free group. **99m:20077**
Ivanov, Sergei Vladimir On the Burnside problem for groups of even exponent. (English summary) **99m:20085**
Kim, Iukang Coordinates of the representation space in the semisimple Lie group of rank one. (English summary) **99j:57039**
Krstić, Sava *see* **Gutiérrez, Mauricio, 99m:20077**
Liriano, Sal Algebraic geometric invariants for a class of one-relator groups. (English summary) **99g:20053**
Meier, John (*with* Meinert, Holger; Van Wyk, Leonard) Higher generation subgroup sets and the Σ-invariants of graph groups. (English summary) **99f:57002**
Meinert, Holger *see* **Meier, John; et al., 99f:57002**
Mihalik, Michael L. Group extensions and tame pairs. (English summary) **99e:57002**
Mitra, Mahan Cannon-Thurston maps for trees of hyperbolic metric spaces. (English summary) **99e:57004**
— Cannon-Thurston maps for hyperbolic group extensions. **99d:57001**
Mosher, Lee *see* **Farb, Benson, 99b:57003**
Stoll, Michael On the asymptotics of the growth of 2-step nilpotent groups. (English summary) **99k:20068**
Świątkowski, Jacek Trivalent polygonal complexes of nonpositive curvature and Platonic symmetry. (English summary) **99f:57003**
Van Wyk, Leonard *see* **Meier, John; et al., 99f:57002**
Zastrow, Andreas Construction of an infinitely generated group that is not a free product of surface groups and abelian groups, but which acts freely on an **R**-tree. (English summary) **99d:20037**

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx, 22E40]

Strojnowski, Andrzej On torsion-free groups with trivial center. (English summary) **99b:20062**

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Cohen, Daniel C. (*with* Suciu, Alexander I.) Alexander invariants of complex hyperplane arrangements. (English summary) **99m:52019**
Eda, Katsuya Free σ-products and fundamental groups of subspaces of the plane. (English summary) **99b:55027**
Goryushkin, V. A. The nonfiniteness of the fundamental groups of a series of 3-manifolds. (Russian. Russian summary) **99c:57004**
Helling, H. (*with* Kim, Ann Chi; Mennicke, J. L.) A geometric study of Fibonacci groups. (English summary) **99c:57005**
Kim, Ann Chi (*with* Vesnin, Andrei) Cyclically presented groups and Takahashi manifolds. (English summary) **99g:57001**
— *see also* **Helling, H.; et al., 99c:57005**
Malfait, Wim Algebraic criteria to decide if a finite group acts effectively on a model aspherical manifold. (English summary) **99e:57050**
Mangum, Brian S. (*with* Shanahan, Patrick) Three-dimensional representations of punctured torus bundles. (English summary) **99e:57030**
Mennicke, J. L. *see* **Helling, H.; et al., 99c:57005**
Robinson, Derek J. S. (*with* Timm, Mathew) On groups that are isomorphic with every subgroup of finite index and their topology. (English summary) **99d:20038**
Shanahan, Patrick *see* **Mangum, Brian S., 99e:57030**
Suciu, Alexander I. *see* **Cohen, Daniel C., 99m:52019**
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20F36 Braid groups; Artin groups

Altobelli, Joseph A. The word problem for Artin groups of FC type. (English summary) **99f:20064**
Birman, Joan S. (*with* Ko, Ki Hyoung; Lee, Sang Jin) A new approach to the word and conjugacy problems in the braid groups. (English summary) **99m:20082**
Chermak, Andrew Locally non-spherical Artin groups. **99e:20046**
Cooper, Daryl (*with* Long, D. D.) On the Burau representation modulo a small prime. (English summary) **99k:20077**
Dehornoy, Patrick Transfinite braids and left distributive operations. **99g:20070**
Desbois, J. (*with* Nechaev, Sergei) Statistics of reduced words in locally free and braid groups: abstract studies and applications to ballistic growth model. (English summary) **99e:20047**
Dicks, Warren (*with* Leary, Ian J.) Presentations for subgroups of Artin groups. (English summary) **99c:20050**
tom Dieck, Tammo (*with* Häring-Oldenburg, Reinhard) Quantum groups and cylinder braiding. (English summary) **99g:20071**
Häring-Oldenburg, Reinhard *see* **tom Dieck, Tammo, 99g:20071**
Humphries, Stephen P. Action of some braid groups on Hodge algebras. (English summary) **99e:20048**
Kawazumi, Nariya Certain cohomology classes on the automorphism groups of free groups. (Japanese) (*see* **99e:30001**)
Ko, Ki Hyoung *see* **Birman, Joan S.; et al., 99m:20082**
Leary, Ian J. *see* **Dicks, Warren, 99c:20050**
Lee, Sang Jin *see* **Birman, Joan S.; et al., 99m:20082**
Lochak, Pierre (*with* Schneps, Leila) The universal Ptolemy-Teichmüller groupoid. (English summary) **99i:20052**
Long, D. D. *see* **Cooper, Daryl, 99k:20077**
Magaard, Kay (*with* Strambach, Karl; Völklein, Helmut) Finite quotients of the pure symplectic braid group. (English summary) **99j:20048**
Nechaev, Sergei *see* **Desbois, J., 99e:20047**
Rolfsen, Dale (*with* Zhu, Jun[1]) Braids, orderings and zero divisors. (English summary) **99g:20072**
Savushkina, A. G. The center of a colored braid group. (Russian. Russian summary) **99e:20049**
Schneps, Leila *see* **Lochak, Pierre, 99i:20052**
Strambach, Karl (*with* Völklein, Helmut) The symplectic braid group and Galois realizations. **99j:20047**
— *see also* **Magaard, Kay; et al., 99j:20048**
Vershinin, Vladimir V. On braid groups in handlebodies. (Russian. Russian summary) **99m:20083**
Völklein, Helmut *see* **Strambach, Karl, 99j:20047** *and* **Magaard, Kay; et al., 99j:20048**
Zhu, Jun[1] *see* **Rolfsen, Dale, 99g:20072**

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Aguiar, Marcelo Braids, q-binomials, and quantum groups. (English summary) **99b:05007**
Becker, Jennifer (*with* Horak, Matthew; Van Wyk, Leonard) Presentations of subgroups of Artin groups. (English summary) **99f:20052**
Broué, Michel (*with* Malle, Gunter; Rouquier, Raphaël) Complex reflection groups, braid groups, Hecke algebras. (English summary) **99m:20088**
Cohen, Daniel C. (*with* Suciu, Alexander I.) Homology of iterated semidirect products of free groups. (English summary) **99e:20064**
Cohen, Frederick R. (*with* Vershinin, Vladimir V.) Thom spectra which are wedges of Eilenberg-MacLane spectra. (English summary) **99e:55007**
Comtet, Alain (*with* Nechaev, Sergei) Random operator approach for word enumeration in braid groups. (English summary) **99k:82041**
Dehornoy, Patrick Une autre application de la théorie des ensembles. [Another application of set theory] **99c:03073**
tom Dieck, Tammo On tensor representations of knot algebras. (English summary) **99i:57011**
— Categories of rooted cylinder ribbons and their representations. **99h:18010**
Duchamp, Gérard (*with* Klyachko, Aleksandr Anatol'evich; Krob, Daniel; Thibon, Jean-Yves) Noncommutative symmetric functions. III. Deformations of Cauchy and convolution algebras. (English summary) **99m:05161**
Dunkl, Charles F. Monodromy of hypergeometric functions for dihedral groups. (English summary) **99g:33003**
Gonzalez-Lorca, Jorge Structure des algèbres de Hecke de type A: un isomorphisme explicite. (English and French summaries) [Structure of the Hecke algebra of type A: an

explicit isomorphism] **99k:20026**
Horak, Matthew *see* **Becker, Jennifer; et al., 99f:20052**
Klyachko, Aleksandr Anatol'evich *see* **Duchamp, Gérard; et al., 99m:05161**
Kohno, Toshitake Elliptic KZ system, braid group of the torus and Vassiliev invariants. **99m:57007**
Krob, Daniel *see* **Duchamp, Gérard; et al., 99m:05161**
Lin, Xiao Song[2] (*with* Tian, Feng[3]; Wang, Zhenghan) Burau representation and random walks on string links. (English summary) **99b:57015**
Malle, Gunter *see* **Broué, Michel; et al., 99m:20088**
Montgomery, Richard The N-body problem, the braid group, and action-minimizing periodic solutions. (English summary) **99a:70019**
Moulton, Vincent L. Vector braids. (English summary) **99f:57001**
Nechaev, Sergei *see* **Comtet, Alain, 99k:82041**
Norton, S. P. Netting the Monster. (English summary) **99i:20022**
Orevkov, S. Yu. Realizability of a braid monodromy by an algebraic function in a disk. (English and French summaries) **99m:32048**
Oziewicz, Zbigniew Clifford algebra for Hecke braid. (English summary) **99d:81063**
Papadima, Ştefan Campbell-Hausdorff invariants of links. (English summary) **99e:57018**
Rosso, Marc Quantum groups and braid groups. **99m:17022**
Rouquier, Raphaël *see* **Broué, Michel; et al., 99m:20088**
Rozansky, Lev The universal R-matrix, Burau representation, and the Melvin-Morton expansion of the colored Jones polynomial. (English summary) **99d:57005**
Saito, Kyoji Duality for regular systems of weights: a précis. **99i:32043**
Stanev, Yassen S. (*with* Todorov, Ivan T.) Monodromy representation of the mapping class group $\mathcal{B}_n$ for the su_2 Knizhnik-Zamolodchikov equation. **99a:32025**
Suciu, Alexander I. *see* **Cohen, Daniel C., 99e:20064**
Teicher, Mina Braid groups, algebraic surfaces and fundamental groups of complements of branch curves. (English summary) **99a:14046**
Thibon, Jean-Yves *see* **Duchamp, Gérard; et al., 99m:05161**
Tian, Feng[3] *see* **Lin, Xiao Song[2]; et al., 99b:57015**
Todorov, Ivan T. *see* **Stanev, Yassen S., 99a:32025**
Van Wyk, Leonard *see* **Becker, Jennifer; et al., 99f:20052**
Vershinin, Vladimir V. Homology of braid groups and their generalizations. (English summary) **99d:20082**
— Vassiliev invariants and braids with singularities. (Russian) **99h:57021**
— *see also* **Cohen, Frederick R., 99e:55007**
Wang, Zhenghan *see* **Lin, Xiao Song[2]; et al., 99b:57015**

20F38 Other groups related to topology or analysis

Imbert, Michel Sur l'isomorphisme du groupe de Richard Thompson avec le groupe de Ptolémée. [On the isomorphism of Richard Thompson's group and the Ptolemy group] **99k:20078**
Johnson, F. E. A. Subgroups of products of surface groups. **99k:20079**

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Fiedorowicz, Zbigniew (*with* Song, Yongjin) The braid structure of mapping class groups. **99g:18005**
Grigorchuk, Rostislav I. *see* **Ceccherini-Silberstein, Tullio G., 99b:20057**
Howie, James Free subgroups in groups of small deficiency. **99e:20041**
Ivanov, N. V. (*with* McCarthy, John D.) On injective homomorphisms between Teichmüller modular groups. I. (English summary) **99m:57014**
Jendrol', Stanislav (*with* Nedela, Roman; Škoviera, Martin) Constructing regular maps and graphs from planar quotients. (English summary) **99h:05054**
Kakimizu, Osamu[2] Operations on trees of groups and decompositions of graph products and surface products. (Japanese) (*see* **99e:30001**)
Korkmaz, Mustafa First homology group of mapping class groups of nonorientable surfaces. **99i:57033**
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Mycielski, Jan Non-amenable groups with amenable-action and some paradoxical decompositions in the plane. **99e:28004**
Nedela, Roman *see* **Jendrol', Stanislav; et al., 99h:05054**
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Škoviera, Martin *see* **Jendrol', Stanislav; et al., 99h:05054**
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Takeuchi, Yoshihiro (*with* Yokoyama, Misako) The realizations of the amalgamated free products of 3-orbifold fundamental groups. (English summary) (*see* **99e:30001**)
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20F40 Associated Lie structures

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Khukhro, E. I. ★ p-automorphisms of finite p-groups. (English summary) **99d:20029**
Mann, Avinoam (*with* Martínez López, Consuelo) Groups nearly of prime exponent and nearly Engel Lie algebras. (English summary) **99f:20029**
Martínez López, Consuelo *see* **Mann, Avinoam, 99f:20029**
Shumyatskiĭ, P. V. On groups having a four-subgroup with finite centralizer. **99k:20081**
— On groups with commutators of bounded order. (English summary) **99m:20065**
Vaughan-Lee, Michael On Zel'manov's solution of the restricted Burnside problem. (English summary) **99a:20019**
Zelmanov, Efim I. On the restricted Burnside problem. **99d:20061**

20F45 Engel conditions

Newell, Martin L. On right-Engel elements of length three. (English summary) **99h:20063**

Items with secondary classifications in 20F45

Derakhshan, Jamshid (*with* Wagner, Frank O.) Nilpotency in groups with chain conditions. **99b:20047**
Kurdics, J. Engel properties of group algebras. II. (English summary) **99m:16043**
Shumyatskiĭ, P. V. On residually finite groups in which commutators are Engel. (English summary) **99m:20064**
Wagner, Frank O. *see* **Derakhshan, Jamshid, 99b:20047**

20F50 Periodic groups; locally finite groups

Asar, Ali Osman A characterization of $\overline{\mathrm{NC}}$-p-groups. (English summary) **99d:20060**
Bagiński, Czesław On the Burnside problems. (Polish) **99e:20050**
Chernikov, N. S. Locally finite and locally hyperabelian groups factorizable by subgroups of finite special rank. (Russian. English summary) **99h:20064**
Dashkova, O. Yu. Groups of finite nonabelian sectional rank. (Russian. English and Ukrainian summaries) **99k:20080**
Hartley, Brian On locally finite groups with a Chernikov maximal subgroup. (Russian. Russian summary) **99m:20084**
Ivanov, Sergei Vladimir On the Burnside problem for groups of even exponent. (English summary) **99m:20085**
Khukhro, E. I. (*with* Smith, Howard) Locally finite groups with all subgroups normal-by-(finite rank). (English summary) **99b:20063**
Leinen, Felix A reduction theorem for perfect locally finite minimal non-FC groups.
Lucido, Maria Silvia Changing the field characteristic on finitary linear groups. (English summary) **99b:20064**
Phillips, Richard E. (*with* Rainbolt, Julianne G.) Images of periodic linear groups. (English summary) **99g:20073**
Rainbolt, Julianne G. *see* **Phillips, Richard E., 99g:20073**
Rocco, N. R. (*with* Shumyatskiĭ, P. V.) On periodic groups having almost regular 2-elements. (English summary) **99m:20086**
Senashov, V. I. Groups with a layer-finite periodic part. (Russian. Russian summary) **99b:20065**
Shalev, Aner Centralizers in residually finite torsion groups. (English summary) **99b:20066**
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Wu, Yu-Fen Groups in which commutativity is a transitive relation. (English summary) **99f:20065**
Zelmanov, Efim I. On the restricted Burnside problem. **99d:20061**
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Artemovich, O. D. On indecomposable groups and groups with hypercentral-by-finite proper subgroups. (English summary) **99i:20040**
Ceccherini-Silberstein, Tullio G. (*with* Grigorchuk, Rostislav I.; de la Harpe, Pierre) Décompositions paradoxales des groupes de Burnside. (English and French summaries) [Paradoxical decompositions of free Burnside groups] **99i:20043**
Cherlin, Gregory *see* **Altinel, Tuna; et al., 99f:20057**
Corredor, Luis-Jaime *see* **Altinel, Tuna; et al., 99f:20057**
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de la Harpe, Pierre *see* **Ceccherini-Silberstein, Tullio G.; et al., 99i:20043**
Lévai, L. Linear core conditions in residually finite groups. (English summary) **99i:20042**
Nesin, Ali *see* **Altinel, Tuna; et al., 99f:20057**
Shumyatskiĭ, P. V. On groups with commutators of bounded order. (English summary) **99m:20065**
Vieira, Ana Cristina On the lower central series and the derived series of the Gupta-Sidki 3-group. **99i:20041**
Wehrfritz, B. A. F. Periodic normal subgroups of linear groups. (English summary) **99g:20094**

20F55 Coxeter groups [see also 22E40]

Albar, Muhammad A. (*with* Al-Hamed, M. A.; Al-Saleh, Norah) The growth of Coxeter groups. (English summary) **99f:20066**
— (*with* Al-Saleh, Norah) Some remarks on the algebraic structure of the finite Coxeter group F_4. (English summary)
Al-Hamed, M. A. *see* **Albar, Muhammad A.; et al., 99f:20066**
Al-Saleh, Norah *see* **Albar, Muhammad A.; et al., 99f:20066**
Bremke, Kirsten (*with* Malle, Gunter) Reduced words and a length function for $G(e, 1, n)$. (English summary) **99d:20062**
— (*with* Malle, Gunter) Root systems and length functions. (English summary) **99g:20075**
— (*with* Fan, C. K.) Comparison of a-functions. (English summary) **99d:20063**
Brink, Brigitte The set of dominance-minimal roots. (English summary) **99k:20083**
Broué, Michel (*with* Malle, Gunter; Rouquier, Raphaël) Complex reflection groups, braid groups, Hecke algebras. (English summary) **99m:20088**
Chen, Yu[4] (*with* Shi, Jian-Yi) Left cells in the Weyl group of type E_7. (English summary) **99h:20065**
du Cloux, Fokko A transducer approach to Coxeter groups. (English summary) **99k:20084**
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Gokhman, A. O. On the representation of smooth invariants of Coxeter groups in terms of anisotropic spaces. (Russian. English and Ukrainian summaries) **99a:20039**
Haglund, Frédéric Réseaux de Coxeter-Davis et commensurateurs. (English and French summaries) [Coxeter-Davis lattices and commensurators] **99j:20049**
Hughes, Mervyn Extended root graphs for complex reflection groups. **99m:20089**
Le Conte de Poly-Barbut, Claude Treillis de Cayley des groupes de Coxeter finis. Constructions par récurrence et décompositions sur des quotients. (English and French summaries) [Cayley lattices of finite Coxeter groups. Recursive constructions and reductions] **99g:20076**
Long, D. D. *see* **Cooper, Daryl; et al.**, **99f:20067**
Malle, Gunter Spetses. (English summary) **99m:20090**
— *see also* **Bremke, Kirsten**, **99d:20062**; **99g:20075** *and* **Broué, Michel; et al.**, **99m:20088**
Maxwell, George Euler characteristics and imbeddings of hyperbolic Coxeter groups. (English summary) **99b:20068**
Meignen, Pierrick Generating series for the Coxeter groups and applications. (English summary) **99e:20051**
Morita, Hideaki (*with* Yamada, Hiro-Fumi) Higher Specht polynomials for the complex reflection group $G(r, p, n)$. (English summary) **99k:20085**
Morita, Jun Generalizations of the homo[iso]morphism $H_3^+ \simeq A_5$ to hyperbolic Coexter groups and their applications. (Japanese) (*see* **99a:00029**)
Rampetas, Konstantinos Demazure operators for complex reflection groups $G(e, e, n)$. (English summary) **99m:20091**
Reid, Alan W. *see* **Cooper, Daryl; et al.**, **99f:20067**
Reiner, Ethan Variation on a theme of Solomon. (English summary) **99i:20053**
Roichman, Yuval Induction and restriction of Kazhdan-Lusztig cells. (English summary) **99c:20051**
Rouquier, Raphaël *see* **Broué, Michel; et al.**, **99m:20088**
Shi, Jian-Yi Left cells in the affine Weyl group of type $\widetilde{F}_4$. (English summary) **99b:20069**
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— *see also* **Chen, Yu[4]**, **99h:20065**
Stembridge, John R. The enumeration of fully commutative elements of Coxeter groups. (English summary) **99b:20070**
Suter, Ruedi The number of lattice points in alcoves and the exponents of the finite Weyl groups. (English summary) **99a:20040**
Tagawa, Hiroyuki Kazhdan-Lusztig polynomials of parabolic type. **99f:20068**
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Athanasiadis, Christos A. On noncrossing and nonnesting partitions for classical reflection groups. (English summary) **99i:05204**
Bergeron, Nantel (*with* van Willigenburg, Stephanie) A multiplication rule for the descent algebra of type D. (English summary) **99f:20008**
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— (*with* Eriksson, Kimmo) Lecture hall partitions. II. (English summary) **99c:05016**
Brenti, Francesco Combinatorial expansions of Kazhdan-Lusztig polynomials. (English summary) **99a:05143**
Brown, Paul R. Buildings and non-positively curved polygons of finite groups. (English summary) **99m:20079**
Can, Himmet Representations of the imprimitive complex reflection groups $G(m, 1, n)$. **99e:20009**
— On the perfect systems of the Specht modules of the Weyl groups of type C_n. (English summary) **99j:20008**
Denef, Jan (*with* Loeser, François) Character sums associated to finite Coxeter groups. (English summary) **99b:11138**
Du, Jie (*with* Parshall, Brian; Scott, Leonard L.) Stratifying endomorphism algebras associated to Hecke algebras. (English summary) **99e:20006**
Eriksson, Kimmo *see* **Bousquet-Mélou, Mireille**, **99c:05015** *and* **99c:05016**
Feit, Walter Integral representations of Weyl groups rationally equivalent to the reflection representation. **99g:20020**
Felikson, A. A. Coxeter decompositions of hyperbolic polygons. (English summary) **99k:52018**
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Hu, Jun[3] (*with* Wang, Jian-pan) Hecke algebras of type D_n at roots of unity. (English summary) **99k:20031**
Hulsurkar, Suresh G. *see* **Patel, Hemendra K.**, **99m:05166**
Kim, Yeonok A certain subgroup of the Weyl group of some Kac-Moody algebras. (English summary) **99k:17042**
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Lusztig, George Periodic W-graphs. **99a:20042**
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— Hyperbolic Coxeter groups, symmetry group invariants for lattice models in statistical mechanics, and the Tutte-Beraha numbers. (English summary) **99f:82013**
Malle, Gunter (*with* Mathas, Andrew) Symmetric cyclotomic Hecke algebras. (English summary) **99g:20026**
Marshall, T. H. Truncated tetrahedra and their reflection groups. (English summary) **99b:52017**
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Niblo, Graham A. (*with* Reeves, L. D.) The geometry of cube complexes and the complexity of their fundamental groups. (English summary) **99a:20037**
Nishiyama, Kyo *see* **Gyoja, Akihiko; et al.**, **99m:20006**
Paoluzzi, Luisa PSL$(2, q)$ quotients of some hyperbolic tetrahedral and Coxeter groups. (English summary) **99a:20047**
Parshall, Brian *see* **Du, Jie; et al.**, **99e:20006**
Patel, Hemendra K. (*with* Hulsurkar, Suresh G.) On the graph on a Weyl group being an interval graph. (English summary) **99m:05166**
Plakhov, A. Yu. (*with* Stëpin, A. M.) Scattering and Coxeter groups. (Russian) **99k:58147**
Procesi, Claudio Complements of subspaces and conical singularities. (Italian. English and Italian summaries) **99a:32024**
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Rudnitskii, O. I. On invariants of symmetry groups of regular complex polytopes. (English summary) **99g:52014**
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Simson, Daniel Quivers, Dynkin diagrams, tameness and wildness in the representation theory of algebras. (Polish) **99k:16001**
Soergel, Wolfgang Kazhdan-Lusztig-Polynome und eine Kombinatorik für Kipp-Moduln. (English summary) [Kazhdan-Lusztig polynomials and combinatorics for tilting modules] **99d:17023**
Solomon, Louis (*with* Terao, Hiroaki) The double Coxeter arrangement. (English summary) **99c:52018**
Stembridge, John R. On the Poincaré series and cardinalities of finite reflection groups. (English summary) **99a:20052**
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Tanabe, Kenichiro On the centralizer algebra of the unitary reflection group $G(m, p, n)$. (English summary) **99d:20014**
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Wang, Jian-pan *see* **Hu, Jun[3]**, **99k:20031**
van Willigenburg, Stephanie A proof of Solomon's rule. (English summary) **99f:20007**
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Zelevinsky, Andrei *see* **Serganova, V. V.; et al.**, **99g:05047**
Zuber, Jean-Bernard Generalized Dynkin diagrams and root systems and their folding. (English summary) **99i:17009**

20F60 Ordered groups [See mainly 06F15]

Kim, Yangkok (*with* Rhemtulla, Akbar H.) Groups with ordered structures. (English summary) **99c:20052**
Kontolatou, Angeliki Approximation theorems for ordered groups with quasi-divisors theory. (Greek. English summary) (*see* **99a:00037**)
Rhemtulla, Akbar H. *see* **Kim, Yangkok**, **99c:20052**
Smith, Geoff C. (*with* Tabachnikova, O. M.) Fresh orderings of groups. (English summary) **99m:20092**
Tabachnikova, O. M. *see* **Smith, Geoff C.**, **99m:20092**

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Chen, Yuanqian (*with* Conrad, Paul) Special-valued subgroups of lattice-ordered groups. (English summary) **99j:06009**
Conrad, Paul *see* **Chen, Yuanqian**, **99j:06009**
Jakubík, Ján Lexicographic product decompositions of cyclically ordered groups. **99m:06031**
Kovář, Tomáš On normal autometrics in commutative lattice ordered groups. (English summary) **99b:06018**
Medvedev, Nikolai Ya. Partial right orders on periodic extensions of abelian groups. (English summary) **99m:06034**
Miller, Chris (*with* Starchenko, Sergei) A growth dichotomy for o-minimal expansions of ordered groups. (English summary) **99e:03025**
Starchenko, Sergei *see* **Miller, Chris**, **99e:03025**
Wang, Li Min[3] (*with* Yang, Sheng Liang) Torsion-free radicals of lattice-ordered groups. (Chinese. English and Chinese summaries) **99d:06023**
Yang, Sheng Liang *see* **Wang, Li Min[3]**, **99d:06023**
Zheleva, S. Representation of right cyclically ordered groups as groups of automorphisms of a cyclically ordered set. (English summary)

20F99 None of the above, but in this section

Artemovich, O. D. On groups with almost hypercentral proper subgroups. (Ukrainian. English summary)
Bukhshtaber, V. M. (*with* Rees, Elmer G.) Multivalued groups, their representations and Hopf algebras. (English summary) **99b:20071**
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Foguel, Tuval Groups with all cyclic subgroups conjugate-permutable groups. **99m:20093**
Gehrke, Ralf The higher geometric invariants for groups with sufficient commutativity. (English summary) **99b:20072**
Guba, V. S. On groups with free transitive action on the set of flags of a projective plane. (Russian. Russian summary) **99h:20066**

Gupta, Chander Kanta (*with* Noskov, G. A.) Splitting epimorphisms of free metabelian groups. (English summary) **99d:20068**
Juhász, Arye (*with* Leibman, Alexander) A note on the combinatorics of multiplication in groups. (English summary) **99f:20069**
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Liu, Wen De A class of infinite groups: the SC-groups. I. (Chinese. English and Chinese summaries)
— Inner and outer SC-groups. I. (Chinese. English and Chinese summaries)
Mohammadi Hassanabadi, A. A property equivalent to permutability for groups. (English summary) **99m:20094**
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Obraztsov, V. N. Simple torsion-free groups in which the intersection of any two non-trivial subgroups is non-trivial. **99h:20067**
Qian, Fang Sheng The infinite ST-groups. (Chinese. English and Chinese summaries)
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Semko, N. N. The structure of locally graded nilpotent CDN-groups. (Ukrainian. English and Ukrainian summaries) **99d:20069**
— The structure of a class of groups with conditions for the density of normality for subgroups. (Ukrainian. English and Ukrainian summaries) **99d:20070**
Senashov, V. I. Characterization of generalized Chernikov groups in groups with involutions. (Russian. Russian summary) **99c:20053**
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Boykett, Timothy H. H. (*with* Nöbauer, Christof) A class of groups which cannot be the additive groups of near-rings with identity. (English summary) **99i:16078**
Kelarev, Andrei V. Combinatorial properties of sequences in groups and semigroups. **99g:20121**
Mohammadi Hassanabadi, A. (*with* Rhemtulla, Akbar H.) Criteria for commutativity in large groups. (English summary) **99f:20061**
Nöbauer, Christof *see* **Boykett, Timothy H. H.**, **99i:16078**
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Senashov, V. I. On a question of V. P. Shunkov. (Russian. Russian summary) **99h:20052**
V'yalitsin, A. A. Investigation of systems of linear Diophantine inequalities by the methods of group theory. (Russian) **99c:11038**
Xu, Ming-Yao Some work on vertex-transitive graphs by Chinese mathematicians. (English summary) **99b:05078**

20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

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(Carter, R. W.) *see* **Algebraic groups and their representations**, **99i:20002**
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20G05 Representation theory

Adamovich, A. M. The structure of cohomology modules of line bundles on G/B. (Russian. Russian summary) **99c:20054**
Adams, Jeffrey (*with* Huang, Jing-Song; Vogan, David A., Jr.) Functions on the model orbit in E_8. (English summary) **99g:20077**
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20G10 Cohomology theory

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Brundan, Jonathan (*with* Kleshchev, Alexander S.; Suprunenko, Irina D.) Semisimple restrictions from $\mathrm{GL}(n)$ to $\mathrm{GL}(n-1)$. (English summary) **99h:20069**
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Hille, Lutz Homogeneous vector bundles and Koszul algebras. (English summary) **99m:14094**
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20G20 Linear algebraic groups over the reals, the complexes, the quaternions

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Radin, Charles (*with* Sadun, Lorenzo) Subgroups of SO(3) associated with tilings. (English summary) **99c:20064**

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20G25 Linear algebraic groups over local fields and their integers

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Glöckner, Helge Scale functions on linear groups over local skew fields. (English summary) **99h:20078**

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20G30 Linear algebraic groups over global fields and their integers

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20G35 Linear algebraic groups over adèles and other rings and schemes

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20G40 Linear algebraic groups over finite fields

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Gao, You (*with* You, Hong) Small sets of generators of unitary groups over finite fields not of characteristic two. (Chinese. English and Chinese summaries)
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Seitz, Gary M. *see* **Liebeck, Martin W., 99h:20074**
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— Shintani descent for special linear groups. (English summary) **99b:20078**
— Irreducible characters of finite Chevalley groups [translation of Sūgaku **47** (1995), no. 3, 241–255; MR 97k:20072]. (*see* **99a:00057**)
Smith, Larry The ring of invariants of $O(3, \mathbf{F}_q)$. (English summary) **99m:13012**
— *see also* **Neusel, Mara D., 99c:13009**
Steinbach, Anja Ingrid Subgroups of classical groups generated by transvections or Siegel transvections I. Embeddings in linear groups. (English summary) **99c:20042**
— Subgroups of classical groups generated by transvections or Siegel transvections. II. Embeddings in orthogonal groups. (English summary) **99c:20043**
Strambach, Karl (*with* Völklein, Helmut) The symplectic braid group and Galois realizations. **99j:20047**
— *see also* **Magaard, Kay; et al., 99j:20048**
Suprunenko, Irina D. (*with* Zalesskiĭ, Aleksandr E.) Irreducible representations of finite classical groups containing matrices with simple spectra. **99m:20098**
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Tiep, Pham Huu (*with* Zalesskiĭ, Aleksandr E.) Some characterizations of the Weil representations of the symplectic and unitary groups. (English summary) **99d:20074**
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Ton That Tri The irreducible modular representations of parabolic subgroups of general linear groups. (English summary) **99b:20079**
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— *see also* **Strambach, Karl, 99j:20047** *and* **Magaard, Kay; et al., 99j:20048**
Waki, Katsushi *see* **Okuyama, Tetsuro, 99b:20025**
Williams, P. D. *see* **Campbell, Colin Matthew; et al., 99c:20037**
Zalesskiĭ, Aleksandr E. *see* **Tiep, Pham Huu, 99d:20074; Dixon, J. D., 99f:20005** *and* **Suprunenko, Irina D., 99m:20098**

20G45 Applications to physics; explicit representations

Items with secondary classifications in 20G45

Dong, Shi-Hai *see* **Pan, Feng; et al., 99k:81083**
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De Concini, C. (*with* Procesi, Claudio) Quantum Schubert cells and representations at roots of 1. **99i:20067**
Gao, Suo Gang *see* **Nan, Ji Zhu, 99m:20116**
Hu, Jun[3] On a characterization of geometric points of quantum general linear groups. (English and Chinese summaries)
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Nan, Ji Zhu (*with* Gao, Suo Gang) Some anzahl theorems in symplectic geometry over the finite local ring $\mathbf{Z}/p^k\mathbf{Z}$. (Chinese. English and Chinese summaries) **99m:20116**
Procesi, Claudio *see* **De Concini, C., 99i:20067**

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(Cram, G.-Martin) *see* **Slodowy, Peter, 99e:20020**
Geck, Meinolf Kazhdan-Lusztig cells and decomposition numbers. (English summary) **99e:20015**
Li, Zhuo The classification of $(\mathcal{F},\sigma)$-irreducible monoids of type A_4. (English summary) **99e:20073**
Shi, Jian-Yi Left cells in the affine Weyl group of type $\widetilde{F}_4$. (English summary) **99b:20069**
Slodowy, Peter Two notes on a finiteness problem in the representation theory of finite groups. **99e:20020**

20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Aljadeff, Eli (*with* Sonn, Jack) Bounds on orders of finite subgroups of $\mathrm{PGL}_n(K)$. (English summary) **99m:20117**
Kurakin, V. L. The exponent of the congruence subgroup of a finite commutative chain ring. (Russian. Russian summary) **99i:20068**
Rao, Ravi A. An abelian group structure on orbits of "unimodular squares" in dimension 3. **99k:20103**
Serre, Jean-Pierre Groupes de congruence (d'après H. Bass, H. Matsumoto, J. Mennicke, J. Milnor, C. Moore). [Congruence groups (after H. Blass, H. Matsumoto, J. Mennicke, J. Milnor, C. Moore)] (*see* **99f:00042**)
Sonn, Jack *see* **Aljadeff, Eli, 99m:20117**

Items with secondary classifications in 20H05

Chernousov, Vladimir I. *see* **Ryzhkov, A. A., 99f:22018**
Husnine, S. M. *see* **Kausar, Imrana; et al., 99k:11166** *and* **99k:11167**
Kausar, Imrana (*with* Husnine, S. M.; Majeed, Abdul) Behaviour of ambiguous and totally positive or negative elements of $\mathbf{Q}^*(\sqrt{n})$ under the action of the modular group. (English summary) **99k:11166**
— (*with* Husnine, S. M.; Majeed, Abdul) Action of the group $h=\langle t, y\colon t^3=y^3=1\rangle$ on the quadratic field. (English summary) **99k:11167**
Majeed, Abdul *see* **Kausar, Imrana; et al., 99k:11166** *and* **99k:11167**
Mason, A. W. Unipotent matrices, modulo elementary matrices, in SL_2 over a coordinate ring. **99f:20080**
Ratcliffe, John G. (*with* Tschantz, Steven T.) Volumes of integral congruence hyperbolic manifolds. **99b:11076**
Ryzhkov, A. A. (*with* Chernousov, Vladimir I.) On the classification of maximal arithmetic subgroups of simply connected groups. (Russian. Russian summary) **99f:22018**
Tschantz, Steven T. *see* **Ratcliffe, John G., 99b:11076**
Zefirov, I. V. Commuting algebraic correspondences and groups. (Russian. Russian summary) **99f:14033**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Allman, Elizabeth S. (*with* Hamilton, Emily) Abelian subgroups of finitely generated Kleinian groups are separable. **99m:20118**
Aslam, Muhammad[1] *see* **Mushtaq, Qaiser, 99a:20049**
Dai, Bin Lin *see* **Peng, Jia Hong, 99h:20081**
Hamilton, Emily *see* **Allman, Elizabeth S., 99m:20118**
Inoue, Katsumi[1] Remarks on algebraic convergence of discrete Möbius groups. **99g:20093**
Jones, Gareth A. Characters and surfaces: a survey. (English summary) **99j:20056**
Klimenko, E. Ya. Two-generator discrete groups and hyperbolic orbifolds of infinite volume. (Russian. Russian summary) (*see* **99a:00019**)
Kra, Irwin (*with* Maskit, Bernard) Pinched 2-component Kleinian groups. **99m:20119**
Long, D. D. (*with* Reid, Alan W.) On Fuchsian groups with the same set of axes. **99k:20104**
Maskit, Bernard *see* **Kra, Irwin, 99m:20119**
McMullen, Curtis T. Kleinian groups and John domains. (English summary) **99c:20070**
Mushtaq, Qaiser (*with* Aslam, Muhammad[1]) Group generated by two elements of orders two and six acting on $\mathbf{R}$ and $\mathbf{Q}(\sqrt{n})$. (English summary) **99a:20049**
Nai, Bing Inequalities of Gehring and Martin for Möbius transformations of n-dimensional space. (Chinese. English and Chinese summaries) **99m:20120**
Peng, Jia Hong (*with* Dai, Bin Lin) Nonelementary purely hyperbolic groups. (Chinese. English and Chinese summaries) **99h:20081**
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Potyagaĭlo, L. D. The co-Hopf property and the embedding of Kleinian groups into themselves. (Russian) (*see* **99a:00019**)
Reid, Alan W. *see* **Long, D. D., 99k:20104**
Singerman, David (*with* Watson, Paul) Non-maximal cyclic group actions on compact Riemann surfaces. (English summary) **99a:20050**
Turbek, Peter The full automorphism group of the Kulkarni surface. (English summary) **99a:20051**
Wang, Jian[1] *see* **Yu, Zu-Guo, 99e:20063**
Watson, Paul *see* **Singerman, David, 99a:20050**
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Apanasov, Boris (*with* Xie, Xiangdong) Geometrically finite complex hyperbolic manifolds. (English summary) **99e:57051**
Belolipetskiĭ, M. V. Estimates for the number of automorphisms of a Riemann surface. (Russian. Russian summary) **99c:14044**
Beukers, Frits The Diophantine equation $Ax^p+By^q=Cz^r$. **99f:11039**
Cao, Chun (*with* Gehring, F. W.; Martin, G. J.) Lattice constants and a lemma of Zagier. (English summary) **99a:30040**
Furusawa, Harushi The chordal norm of Kleinian groups. **99h:30040**
Gehring, F. W. (*with* Maclachlan, C.; Martin, G. J.) Two-generator arithmetic Kleinian groups. II. (English summary) **99j:30050**
— *see also* **Cao, Chun; et al., 99a:30040**
Godement, Roger Cohomologie des groupes discontinus. [Cohomology of discontinuous groups] (*see* **99f:00034**)
Gromadzki, G. (*with* Izquierdo Barrios, Milagros) Real forms of a Riemann surface of even genus. (English summary) **99b:30062**
Hamilton, Emily Geometrical finiteness for hyperbolic orbifolds. **99h:57027**
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Jones, Kerry N. (*with* Reid, Alan W.) Geodesic intersections in arithmetic hyperbolic 3-manifolds. **99a:57009**
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Lalley, Steven P. Percolation on Fuchsian groups. (English and French summaries) **99g:60190**
Lawson, Mark V. The Möbius inverse monoid. (English summary) **99c:20088**
Lundh, Torbjörn Discrete groups and thin sets. (English summary) **99h:31005**
Maclachlan, C. *see* **Gehring, F. W.; et al., 99j:30050**
Martin, G. J. *see* **Cao, Chun; et al., 99a:30040** *and* **Gehring, F. W.; et al., 99j:30050**
Matsuura, Atsushi The automorphism group of the Klein curve in the mapping class group of genus 3. **99d:30043**
Matsuzaki, Katsuhiko Stability of Kleinian groups. **99i:30063**
— (*with* Taniguchi, Masahiko) ★ Hyperbolic manifolds and Kleinian groups. **99g:30055**
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— Geometric convergence of Kleinian groups and the Hausdorff dimension of limit sets. (Japanese) **99m:30089**
Maubon, Julien Geometrically finite Kleinian groups: the completeness of Nayatani's metric. (English and French summaries) **99a:30041**
May, Coy L. Finite 3-groups acting on bordered surfaces. **99j:57015**
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Ohshika, Ken'ichi (*with* Potyagaĭlo, L. D.) Self-embeddings of Kleinian groups. (English and French summaries) **99d:57009**
Parker, John R. On the volumes of cusped, complex hyperbolic manifolds and orbifolds. **99i:32030**
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Potyagaĭlo, L. D. *see* **Ohshika, Ken'ichi, 99d:57009**
Reid, Alan W. *see* **Jones, Kerry N., 99a:57009** *and* **99a:57010**
Sato, Hiroki Jørgensen's inequality for classical Schottky groups of real type. (English summary) **99h:30041**
Smolander, Pekka Numerical approximation of bicanonical embedding. **99m:30085**
Sonnino, Angelo Linear collineation groups preserving an arc in a Möbius plane. (English summary) **99m:51021**
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Veech, W. A. Delaunay partitions. **99c:57041**
Vulakh, L. Ya. Farey polytopes and continued fractions associated with discrete hyperbolic groups. (English summary) **99i:11054**
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Yang, Zong Xin (*with* Wang, Jian[1]) Cohomology of Fuchsian groups. (Chinese. English and Chinese summaries) **99f:20087**

20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

Baumgartner, B. (*with* Breitenecker, M.; Urbantke, Helmuth K.) On group structure in Copernican quasicrystallography. (English summary) **99m:20122**
Breitenecker, M. *see* **Baumgartner, B.; et al., 99m:20122**
Cheng, Xiangguo *see* **Zha, Jian Guo, 99a:20053**
Dekimpe, Karel (*with* Igodt, Paul) Polycyclic-by-finite groups admit a bounded-degree polynomial structure. (English summary) **99c:20071**
Igodt, Paul *see* **Dekimpe, Karel, 99c:20071**
Kawabe, Tatsuya On the properly discontinuous subgroups of affine motions. (English summary) **99f:20084**
Malfait, Wim (*with* Szczepański, Andrzej) Almost-Bieberbach groups with (in)finite outer automorphism group. (English summary) **99m:20123**
Opgenorth, J. (*with* Plesken, Wilhelm; Schulz, T.) Crystallographic algorithms and tables. (English summary) **99h:20082**
Plesken, Wilhelm *see* **Opgenorth, J.; et al., 99h:20082**
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Szczepański, Andrzej *see* **Malfait, Wim, 99m:20123**
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Horváth, Ákos G. On Dirichlet-Voronoi cell. II. Diagrams. (English summary) **99j:52018**
Hou, Xi-Wen *see* **Dong, Shi-Hai; et al., 99i:81060**
Litvin, Daniel B. On Opechowski-Guccione magnetic space-group symbols. (English summary) **99c:82069**
Ma, Zhong-Qi *see* **Dong, Shi-Hai; et al., 99i:81060**
Malle, Gunter *see* **Bremke, Kirsten, 99d:20062**
Mermin, N. David The symmetry of crystals. (English summary) **99a:52023**
Pearson, Kimberly Algebraic K-theory of two-dimensional crystallographic groups. (English summary) **99c:19002**
Pitteri, Mario (*with* Zanzotto, Giovanni) Beyond space groups: the arithmetic symmetry of deformable multilattices. (English summary) **99d:52014**
Pogoda, Zdzisław Hilbert's Eighteenth Problem (crystallographic groups). (Polish. English summary) **99g:01029**
Xiao, Heng On constitutive equations of Cauchy elastic solids: all kinds of crystals and quasicrystals. (English summary) **99a:73005**
Xie, Mi *see* **Dong, Shi-Hai; et al., 99i:81060**
Zanzotto, Giovanni *see* **Pitteri, Mario, 99d:52014**

20H20 Other matrix groups over fields

Plesken, Wilhelm Finite rational matrix groups: a survey. (English summary) **99h:20083**
Sidel'nikov, V. M. On a finite matrix group and orbit codes on a Euclidean sphere. (Russian) **99m:20124**
Wehrfritz, B. A. F. Periodic normal subgroups of linear groups. (English summary) **99g:20094**

Items with secondary classifications in 20H20

Cigler, Grega On matrix groups with finite spectrum. (English summary) **99i:20060**
Dixon, J. D. (*with* Zalesskiĭ, Aleksandr E.) Finite primitive linear groups of prime degree. **99f:20005**
Kondrat'ev, Anatoliĭ Semenovich Finite linear groups of small degree. (English summary) **99f:20023**
Phillips, Richard E. (*with* Rainbolt, Julianne G.) Images of periodic linear groups. (English summary) **99g:20073**
Rainbolt, Julianne G. *see* **Phillips, Richard E., 99g:20073**
Rapinchuk, Andrei S. On the finite-dimensional unitary representations of Kazhdan groups. (English summary) **99h:22004**
Satô, Kenzi Free groups acting without fixed points on rational spheres. **99g:20044**
Xiao, Heng On scalar, vector- and second-order tensor-valued anisotropic functions of vectors and second-order tensors relative to all kinds of subgroups of the transverse isotropy group $C_{\infty h}$. (English summary) **99m:73003**
Zalesskiĭ, Aleksandr E. *see* **Dixon, J. D., 99f:20005**

20H25 Other matrix groups over rings

Bashkirov, E. L. On subgroups of the general linear group over the skew field of quaternions containing the special unitary group. (Russian. Russian summary) **99m:20125**
Nebe, Gabriele Finite quaternionic matrix groups. (English summary) **99f:20085**
Wehrfritz, B. A. F. Nilpotent-by-finite cofinitary groups. **99i:20069**

Items with secondary classifications in 20H25

Wilson, John S. (*with* Zalesskii, P. A.) Conjugacy separability of certain Bianchi groups and HNN extensions. **99b:20054**
Zalesskii, P. A. *see* **Wilson, John S., 99b:20054**

20H30 Other matrix groups over finite fields

Items with secondary classifications in 20H30

Robinson, Geoffrey R. Counting conjugacy classes of unitriangular groups associated to finite-dimensional algebras. **99h:14025**

20Jxx Connections with homological algebra and category theory

Items with secondary classifications in 20Jxx

Benson, David John ★ Representations and cohomology. II. (English summary) **99f:20001b**

20J05 Homological methods in group theory

Adem, Alejandro Buildings, group extensions and the cohomology of congruence subgroups. **99g:20095**
Benson, David John Complexity and varieties for infinite groups. I, II. (English summary) **99a:20054**
Brown, Ronald (*with* Porter, Timothy) On the Schreier theory of non-abelian extensions: generalisations and computations. (English summary) **99j:20057**
Cohen, Daniel C. (*with* Suciu, Alexander I.) Homology of iterated semidirect products of free groups. (English summary) **99e:20064**
Cornick, Jonathan (*with* Kropholler, Peter H.) Homological finiteness conditions for modules over group algebras. (English summary) **99k:20105**
Deo, Satya (*with* Varadarajan, Kalathoor) Hopfian and co-Hopfian groups. (English summary) **99a:20055**
Ellis, Graham J. (*with* Leonard, Frank) Computing Schur multipliers and tensor products of finite groups. (English summary) **99h:20084**
— On the Schur multiplier of a quotient of a direct product of groups. (English summary) **99m:20126**
Fujiwara, Koji The second bounded cohomology of a group acting on a Gromov-hyperbolic space. **99c:20072**
Godement, Roger Cohomologie des groupes discontinus. [Cohomology of discontinuous groups] (*see* **99f:00034**)
Hatcher, Allen (*with* Vogtmann, Karen) Rational homology of $\mathrm{Aut}(F_n)$. (English summary) **99m:20127**
Henn, Hans-Werner Unstable modules over the Steenrod algebra and cohomology of groups. **99a:20056**
— Centralizers of elementary abelian p-subgroups and mod-p cohomology of profinite groups. **99b:20083**
Inasaridze, N. Non-abelian homology of groups. (Russian and Georgian summaries)
Inassaridze, H. (*with* Inassaridze, N.) New descriptions of the non-abelian homology of groups. (English summary)
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Kropholler, Peter H. (*with* Mislin, Guido) Groups acting on finite-dimensional spaces with finite stabilizers. (English summary) **99f:20086**
— *see also* **Cornick, Jonathan, 99k:20105**
Kuz'min, Yu. V. (*with* Semenov, Yu. S.) On the homology of a free nilpotent group of class 2. (Russian. Russian summary) **99e:20065**
Lee, Chun-Nip On the finite generation of high-dimensional cohomology ring of virtually torsion-free groups. **99h:20085**
Leonard, Frank *see* **Ellis, Graham J., 99h:20084**
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Noskov, G. A. The Bieri-Strebel invariant and homological finiteness conditions for metabelian groups. (Russian. Russian summary) **99d:20080**
Porter, Timothy *see* **Brown, Ronald, 99j:20057**
Schneider, Peter[1] Equivariant homology for totally disconnected groups. **99e:20066**
(Schneps, Leila) *see* **Serre, Jean-Pierre, 99d:20081**
Semenov, Yu. S. *see* **Kuz'min, Yu. V., 99e:20065**
Serre, Jean-Pierre Deux lettres sur la cohomologie non abélienne. [Two letters concerning nonabelian cohomology] **99d:20081**
Suciu, Alexander I. *see* **Cohen, Daniel C., 99e:20064**
Varadarajan, Kalathoor *see* **Deo, Satya, 99a:20055**
Vershinin, Vladimir V. Homology of braid groups and their generalizations. (English summary) **99d:20082**
Vogtmann, Karen *see* **Hatcher, Allen, 99m:20127**
Wang, Jian[1] *see* **Yang, Zong Xin, 99f:20087**
Xia, Yining Yagita invariant of mapping class groups at the prime 2. (English summary) **99g:20096**
Yang, Zong Xin (*with* Wang, Jian[1]) Cohomology of Fuchsian groups. (Chinese. English and Chinese summaries) **99f:20087**

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Correspondence:
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Arvasi, Zekeriya From simplicial groups to crossed complexes. (English summary) **99m:18011**
Baumslag, Gilbert (*with* Bridson, Martin R.; Gruenberg, Karl W.) On the absence of cohomological finiteness in wreath products. (English summary) **99f:20050**
Bergman, George M. Supports of derivations, free factorizations, and ranks of fixed subgroups in free groups. (English summary) **99f:20036**
Bridson, Martin R. *see* **Baumslag, Gilbert; et al., 99f:20050**
Carlson, Jon F. (*with* Wheeler, Wayne W.) Homomorphisms in higher complexity quotient categories. (English summary) **99k:20019**
Davis, Michael Walter The cohomology of a Coxeter group with group ring coefficients. **99b:20067**
Ellis, Graham J. (*with* McDermott, Aidan) Tensor products of prime-power groups. (English summary) **99g:20049**
Freedman, Michael Hartley (*with* Hain, Richard M.; Teichner, Peter) Betti number estimates for nilpotent groups. (English summary) **99d:20052**
Gruenberg, Karl W. *see* **Baumslag, Gilbert; et al., 99f:20050**
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Horadam, K. J. (*with* Perera, A. A. I.) Codes from cocycles. (English summary) **99j:94067**
Kechagias, Nondas E. Modular invariant theory, homology operations, and the transfer between rings of invariants of parabolic subgroups. (English summary) **99b:55035**
Linckelmann, Markus On derived equivalences and local structure of blocks of finite groups. (English summary) **99k:20021**
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Nucinkis, Brita E. A. Complete cohomology for arbitrary rings using injectives. (English summary) **99h:16012**
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Symonds, Peter The orbit space of the p-subgroup complex is contractible. (English summary) **99f:20033**
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20J06 Cohomology of finite groups

Adem, Alejandro (*with* Karagueuzian, Dikran; Milgram, R. James; Umland, Kristin) The cohomology of the Lyons group and double covers of alternating groups. **99m:20128**
Ellis, Graham J. The Schur multiplier of a pair of groups. (English summary) **99h:20086**
Fong, Paul (*with* Milgram, R. James) On the geometry and cohomology of the simple groups $G_2(q)$ and ${}^3D_4(q)$. **99f:20088**
Green, David John (*with* Phạm Anh Minh) Transfer and Chern classes for extraspecial p-groups. (English summary) **99d:20083**
— (*with* Leary, Ian J.) The spectrum of the Chern subring. (English summary) **99i:20070**
Guralnick, Robert M. (*with* Hoffman, Corneliu) The first cohomology group and generation of simple groups. (English summary) **99h:20087**
Hoffman, Corneliu *see* **Guralnick, Robert M., 99h:20087**
Kahn, Bruno (*with* Phạm Anh Minh) A description of the second mod p cohomology group of a p-group. (English summary) **99i:20071**
Karagueuzian, Dikran *see* **Adem, Alejandro; et al., 99m:20128**
Leary, Ian J. (*with* Schuster, Björn; Yagita, Nobuaki) On universally stable elements. **99b:20084**
— *see also* **Green, David John, 99i:20070**
Milgram, R. James On the geometry and cohomology of the simple groups $G_2(q)$ and ${}^3D_4(q)$. II. **99f:20089**
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Ono, Takashi "Hasse principle" for $\mathrm{PSL}_2(\mathbf{Z})$ and $\mathrm{PSL}_2(\mathbf{F}_p)$. **99i:20072**
Phạm Anh Minh Serre's theorem on the cohomology algebra of a p-group. **99i:20073**
— Hochschild-Serre spectral sequences of split extensions and cohomology of some extra-special p-groups. (English summary) **99g:20097**
— *see also* **Green, David John, 99d:20083** *and* **Kahn, Bruno, 99i:20071**
Schuster, Björn *see* **Leary, Ian J.; et al., 99b:20084**
Serre, Jean-Pierre Cohomologie et arithmétique. [Cohomology and arithmetic] (*see* **99f:00034**)
— Groupes finis à cohomologie périodique (d'après R. Swan). [Finite groups with periodic cohomology (after R. Swan)] (*see* **99f:00038**)
Umland, Kristin *see* **Adem, Alejandro; et al., 99m:20128**
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Arone, Greg (*with* Kankaanrinta, Marja) The homology of certain subgroups of the symmetric group with coefficients in $\mathcal{L}ie(n)$. (English summary) **99c:57070**
Benson, David John Infinite-dimensional modules for a finite group. **99k:20018**
— ★ Representations and cohomology. I. (English summary) **99f:20001a**
— (*with* Wheeler, Wayne W.) Direct sum decompositions of infinitely generated modules. (English summary) **99m:20009**
Carlson, Jon F. (*with* Peng, Chuang; Wheeler, Wayne W.) Transfer maps and virtual projectivity. (English summary) **99j:20005**
Dwyer, William G. Sharp homology decompositions for classifying spaces of finite groups. **99b:55033**
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— On the relation between simple groups and homotopy theory. **99a:55012**
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Reznikov, Alexander Three-manifolds class field theory (homology of coverings for a nonvirtually b_1-positive manifold). **99b:57041**
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20J15 Category of groups

Items with secondary classifications in 20J15

Fay, Temple H. (*with* Walls, Gary L.) $\overline{R}$-groups. (English summary) **99m:20075**
Lee, Chun-Nip On the finite generation of high-dimensional cohomology ring of virtually torsion-free groups. **99h:20085**
Walls, Gary L. *see* **Fay, Temple H., 99m:20075**

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Fukushi, Takeo Perfect braided crossed modules and their mod-q analogues. (English summary) **99c:20073**

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Brown, Ronald Paul (*with* Harrison, David K.) Abelian Frobenius kernels and modules over number rings. (English summary) **99h:20026**
Harrison, David K. *see* **Brown, Ronald Paul, 99h:20026**
Stark, C. W. Approximate finiteness properties of infinite groups. (English summary) **99k:57050**

20Kxx Abelian groups

20K01 Finite abelian groups

Bannai, Etsuko (*with* Munemasa, Akihiro) Duality maps of finite abelian groups and their applications to spin models. (English summary) **99j:20058**
Chapman, Scott T. (*with* Thill, William) On a generalisation of a theorem of Zaks and Skula. (English summary) **99g:20098**
Munemasa, Akihiro *see* **Bannai, Etsuko, 99j:20058**
Thill, William *see* **Chapman, Scott T., 99g:20098**
Wang, Hang Ping A homological proof of the structure theorem for finite abelian groups. (Chinese. English and Chinese summaries)
Wolf, Reinhard Karl A distance measure on finite abelian groups and an application to quasi-Monte Carlo integration. (English summary) **99j:20059**

Items with secondary classifications in 20K01

An, Myoung *see* **Tolimieri, Richard, 99e:94013**
Fukuchi, Yasuhiro Graph labelings in elementary abelian groups. (English summary) **99f:05099**
Gao, Weidong On the number of subsequences with given sum. (English summary) **99j:20022**
Ivić, Aleksandar On the number of subgroups of finite abelian groups. (English and French summaries) **99g:11115**
Li, Cai Heng Isomorphisms of Cayley digraphs of abelian groups. (English summary) **99c:05092**
Logachev, O. A. (*with* Sal'nikov, A. A.; Yashchenko, V. V.) Bent functions on a finite abelian group. (Russian. Russian summary) **99e:94030**
Sal'nikov, A. A. *see* **Logachev, O. A.; et al., 99e:94030**
Szabó, Sándor Elementary 3-groups with Hajós n-property. (English summary) **99m:20044**
Teske, Edlyn A space efficient algorithm for group structure computation. (English summary) **99a:11146**
Tolimieri, Richard (*with* An, Myoung) ★ Time-frequency representations. (English summary) **99e:94013**
Wu, Jie[1] On the average number of unitary factors of finite abelian groups. **99f:11124**
Xiang, Qing On reversible abelian Hadamard difference sets. (English summary) **99f:05018**
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20K10 Torsion groups, primary groups and generalized primary groups

Carroll, Daniel (*with* Goldsmith, Brendan) On transitive and fully transitive abelian p-groups. (English summary) **99f:20090**
Goldsmith, Brendan *see* **Carroll, Daniel, 99f:20090**
Hill, Paul A note on σ-summable groups. (English summary) **99a:20057**

Items with secondary classifications in 20K10

Bekker, I. Kh. (*with* Nedov, V. N.) On groups with isomorphic holomorphs. (Russian. Russian summary) **99b:20086**
Hill, Paul (*with* Ullery, William) On commutative group algebras of mixed groups. (English summary) **99d:20008**
Ivanov, George Generalizing the Baer-Kaplansky theorem. (English summary) **99k:16004**
Kalenova, B. S. Computability of the class of strongly constructivizable abelian p-groups. (English summary) **99i:03035**
Nedov, V. N. *see* **Bekker, I. Kh., 99b:20086**
Schwachhöfer, Martin (*with* Stroppel, Markus) Finding representatives for the orbits under the automorphism group of a bounded abelian group. (English summary) **99j:20064**
Stroppel, Markus *see* **Schwachhöfer, Martin, 99j:20064**
Ullery, William *see* **Hill, Paul, 99d:20008**

20K12 Ulm sequences

Items with secondary classifications in 20K12

Carroll, Daniel (*with* Goldsmith, Brendan) On transitive and fully transitive abelian p-groups. (English summary) **99f:20090**
Goldsmith, Brendan *see* **Carroll, Daniel, 99f:20090**

20K15 Torsion free groups, finite rank

Albrecht, Ulrich F. (*with* Goeters, H. Pat) Butler theory over Murley groups. **99c:20074**
Arnold, David M. (*with* Dugas, Manfred) Representation type of finite rank almost completely decomposable groups. (English summary) **99j:20060**
Bekker, I. Kh. (*with* Nedov, V. N.) On groups with isomorphic holomorphs. (Russian. Russian summary) **99b:20086**
Benabdallah, K. (*with* Mader, Adolf) Almost completely decomposable groups and integral linear algebra. **99g:20099**
Dugas, Manfred *see* **Arnold, David M., 99j:20060**
Faticoni, Theodore G. Direct sums and refinement. **99m:20129**
Goeters, H. Pat (*with* Ullery, William) Critical typesets of bracket groups. **99h:20088**
— (*with* Wickless, W. J.) Qqpi groups and quasi-equivalence. (English summary) **99d:20084**
— *see also* **Albrecht, Ulrich F., 99c:20074**
Grinshpon, S. Ya. Fully transitive uniformly separable abelian groups. (Russian) **99d:20085**
Khisamiev, N. G. (*with* Krykpaeva, A. A.) Effectively completely decomposable abelian groups. (Russian. Russian summary) **99c:20075**
Kovyazina, E. M. Butler groups with one τ-adic relation. (Russian. Russian summary) **99d:20086**
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Lebedinskiĭ, D. M. Direct decompositions of torsion-free abelian groups belonging to certain classes. (Russian. Russian summary) **99d:20087**
Mader, Adolf *see* **Benabdallah, K., 99g:20099**

Nedov, V. N. *see* **Bekker, I. Kh., 99b:20086**
Turmanov, M. A. On quasidecompositions of torsion-free abelian groups of finite rank. (Russian. Russian summary) **99d:20088**
Ullery, William *see* **Goeters, H. Pat, 99h:20088**
Vinsonhaler, C. (*with* Wickless, W. J.) Dualities for locally completely decomposable abelian groups. **99b:20087**
Wickless, W. J. *see* **Vinsonhaler, C., 99b:20087** *and* **Goeters, H. Pat, 99d:20084**

Items with secondary classifications in 20K15

Nongxa, Loyiso G. (*with* Vinsonhaler, C.) Balanced and cobalanced representations of posets. **99a:16010**
Protasov, I. V. (*with* Yurchuk, T. L.) Decomposability of free groups. (Russian. English summary) **99m:20049**
Vinsonhaler, C. *see* **Nongxa, Loyiso G., 99a:16010**
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20K20 Torsion free groups, infinite rank

Bican, Ladislav (*with* El Bashir, Robert) A version of Kulikov's criterion. **99m:20130**
— (*with* Rangaswamy, K. M.) Smooth unions of Butler groups. (English summary) **99d:20089**
Corner, A. L. S. (*with* Göbel, Rüdiger) Essentially rigid floppy subgroups of the Baer-Specker group. (English summary) **99a:20058**
El Bashir, Robert *see* **Bican, Ladislav, 99m:20130**
Fink, Thorsten A note on direct decompositions of large powers of the group of integers. **99m:20131**
Gardner, B. J. Self-pseudoprojective completely decomposable abelian groups. (English summary) **99i:20074**
Göbel, Rüdiger *see* **Corner, A. L. S., 99a:20058**
Kolman, Oren The Baer-Specker group. **99e:20068**
Okuyama, Takashi On almost-dense extension groups of torsion-free groups. (English summary) **99f:20091**
Rangaswamy, K. M. *see* **Bican, Ladislav, 99d:20089**
Shelah, Saharon If there is an exactly λ-free abelian group then there is an exactly λ-separable one in λ. (English summary) **99c:20076**

Items with secondary classifications in 20K20

Corner, A. L. S. (*with* Göbel, Rüdiger) Radicals commuting with Cartesian products. (English summary) **99j:20062**
Files, Steve T. (*with* Göbel, Rüdiger) Gauss' theorem for two submodules. **99d:13012**
Göbel, Rüdiger (*with* Shelah, Saharon) Indecomposable almost free modules—the local case. (English summary) **99i:13014**
— *see also* **Files, Steve T., 99d:13012** *and* **Corner, A. L. S., 99j:20062**
Goeters, H. Pat Noetherian stable domains. **99f:13020**
Monari-Martinez, Elisabetta (*with* Rangaswamy, K. M.) Torsion-free modules over valuation domains whose balanced-projective dimension is at most one. **99g:13029**
Rangaswamy, K. M. A criterion for complete decomposability and Butler modules over valuation domains. **99g:13030**
— *see also* **Monari-Martinez, Elisabetta, 99g:13029**
Shelah, Saharon *see* **Göbel, Rüdiger, 99i:13014**
Vinsonhaler, C. (*with* Wickless, W. J.) Dualities for locally completely decomposable abelian groups. **99b:20087**
Wickless, W. J. *see* **Vinsonhaler, C., 99b:20087**

20K21 Mixed groups

Albrecht, Ulrich F. (*with* Jeong, Jong-Woo) Homomorphisms between A-projective abelian groups and left Kasch-rings. (English summary) **99b:20088**
Bekker, I. Kh. On mixed abelian groups with periodic automorphism groups. (Russian. Russian summary) **99d:20090**
Călugăreanu, Grigore Pure subgroups of mixed abelian groups including the torsion part. **99c:20077**
Fomin, A. A. (*with* Wickless, W. J.) Self-small mixed abelian groups G with $G/T(G)$ finite rank divisible. (English summary) **99j:20061**
Hill, Paul (*with* Megibben, Charles) The nonseparability of simply presented mixed groups. (English summary) **99m:20132**
Jeong, Jong-Woo *see* **Albrecht, Ulrich F., 99b:20088**
Megibben, Charles *see* **Hill, Paul, 99m:20132**
Wickless, W. J. *see* **Fomin, A. A., 99j:20061**

Items with secondary classifications in 20K21

Călugăreanu, Grigore On a problem of Prof. A. Orsatti. (English summary) **99m:20134**
Files, Steve T. Transitivity and full transitivity for nontorsion modules. **99a:20059**
Hill, Paul (*with* Ullery, William) On commutative group algebras of mixed groups. (English summary) **99d:20008**
Jarisch, Ralf (*with* Mutzbauer, Otto; Toubassi, Elias) Characterizing a class of simply presented modules by relation arrays. (English summary) **99i:13016**
Mutzbauer, Otto *see* **Jarisch, Ralf; et al., 99i:13016**
Toubassi, Elias *see* **Jarisch, Ralf; et al., 99i:13016**
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20K25 Direct sums, direct products, etc.

Corner, A. L. S. (*with* Göbel, Rüdiger) Subgroups of the Baer-Specker group with prescribed endomorphism ring and large dual. (English summary) **99i:20075**
— (*with* Göbel, Rüdiger) Radicals commuting with Cartesian products. (English summary) **99j:20062**
Göbel, Rüdiger *see* **Corner, A. L. S., 99i:20075** *and* **99j:20062**

20K26 Indecomposable groups

Items with secondary classifications in 20K26

Albrecht, Ulrich F. (*with* Goeters, H. Pat) Butler theory over Murley groups. **99c:20074**
Arnold, David M. (*with* Dugas, Manfred) Representation type of finite rank almost completely decomposable groups. (English summary) **99j:20060**
Dugas, Manfred *see* **Arnold, David M., 99j:20060**
Goeters, H. Pat *see* **Albrecht, Ulrich F., 99c:20074**

20K27 Subgroups

Items with secondary classifications in 20K27

Laurinčikas, Antanas A limit theorem in the theory of finite abelian groups. (English summary) **99m:11101**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

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Files, Steve T. Transitivity and full transitivity for nontorsion modules. **99a:20059**
Grinshpon, S. Ya. On the equality to zero of the homomorphism group of abelian groups. (Russian) **99j:20063**
Khmeleva, L. E. *see* **Kislovskaya, N. M., (99k:00020)** *and* **(99k:00020)**
Kislovskaya, N. M. (*with* Khmeleva, L. E.) The additive group of the endomorphism ring of an abelian group. (Russian. Russian summary) (*see* **99k:00020**)
— (*with* Khmeleva, L. E.) Splittable abelian groups. (Russian. Russian summary) (*see* **99k:00020**)
Lubimcev, O. (*with* Sebel'din, A. M.; Vinsonhaler, C.) Separable torsion-free abelian E^*-groups. (English summary) **99i:20076**
Saleh, Mohammad A. (*with* Yousef, Hasan; Abu Hlail, J.) The number of homomorphisms from $\mathbf{Z}_{m_1} \times \mathbf{Z}_{m_2} \times \cdots \times \mathbf{Z}_{m_r}$ into $\mathbf{Z}_{k_1} \times \mathbf{Z}_{k_2} \times \cdots \times \mathbf{Z}_{k_s}$. (English and Arabic summaries)
Schultz, Phillip Automorphisms which determine an abelian p-group. (English summary) **99i:20077**
Schwachhöfer, Martin (*with* Stroppel, Markus) Finding representatives for the orbits under the automorphism group of a bounded abelian group. (English summary) **99j:20064**
Sebel'din, A. M. Summability of the ring of endomorphisms of vector groups. (Russian. Russian summary) **99m:20133**
— *see also* **Lubimcev, O.; et al., 99i:20076**
Stroppel, Markus *see* **Schwachhöfer, Martin, 99j:20064**
Turner, Edward C. (*with* Voce, Daniel A.) Tame automorphisms of finitely generated abelian groups. (English summary) **99g:20100**
Vinsonhaler, C. *see* **Lubimcev, O.; et al., 99i:20076**
Voce, Daniel A. *see* **Turner, Edward C., 99g:20100**
Yousef, Hasan *see* **Saleh, Mohammad A.; et al.**

Items with secondary classifications in 20K30

Albrecht, Ulrich F. (*with* Jeong, Jong-Woo) Homomorphisms between A-projective abelian groups and left Kasch-rings. (English summary) **99b:20088**
Bekker, I. Kh. On mixed abelian groups with periodic automorphism groups. (Russian. Russian summary) **99d:20090**
Bhaskara Rao, K. P. S. *see* **Göbel, Rüdiger; et al., 99c:28032**
Carroll, Daniel (*with* Goldsmith, Brendan) On transitive and fully transitive abelian p-groups. (English summary) **99f:20090**
Corner, A. L. S. (*with* Göbel, Rüdiger) Subgroups of the Baer-Specker group with prescribed endomorphism ring and large dual. (English summary) **99i:20075**
Fomin, A. A. (*with* Wickless, W. J.) Self-small mixed abelian groups G with $G/T(G)$ finite rank divisible. (English summary) **99j:20061**
Göbel, Rüdiger (*with* Bhaskara Rao, K. P. S.; Shortt, Rae Michael) Extensions of group-valued set functions. (English summary) **99c:28032**
— (*with* Shelah, Saharon) Endomorphism rings of modules whose cardinality is cofinal to omega. **99i:13021**
— (*with* Pabst, Simone) Endomorphism algebras over large domains. (English summary) **99b:16046**
— *see also* **Corner, A. L. S., 99i:20075**
Goeters, H. Pat (*with* Wickless, W. J.) Qqpi groups and quasi-equivalence. (English summary) **99d:20084**
Goldsmith, Brendan (*with* Pabst, Simone; Scott, Audrey) Unit sum numbers of rings and modules. **99i:16060**
— *see also* **Carroll, Daniel, 99f:20090**
Jeong, Jong-Woo *see* **Albrecht, Ulrich F., 99b:20088**
Pabst, Simone *see* **Göbel, Rüdiger, 99b:16046** *and* **Goldsmith, Brendan; et al., 99i:16060**
Scott, Audrey *see* **Goldsmith, Brendan; et al., 99i:16060**
Shelah, Saharon *see* **Göbel, Rüdiger, 99i:13021**
Shortt, Rae Michael *see* **Göbel, Rüdiger; et al., 99c:28032**
Wickless, W. J. *see* **Goeters, H. Pat, 99d:20084** *and* **Fomin, A. A., 99j:20061**
Witbooi, P. J. Groups for which every subquotient is (co-)Hopfian. (English summary) **99k:20069**

20K35 Extensions

Mikaelyan, V. G. On identities of extensions of abelian groups. (Russian. Armenian summary)

20K40 Homological and categorical methods

Călugăreanu, Grigore On a problem of Prof. A. Orsatti. (English summary) **99m:20134**
Hébert, Michel Injectivity classes of abelian groups. (English summary) **99b:20089**
Kaliev, M. K. *see* **Khisamiev, N. G., 99h:20089**
Khisamiev, N. G. (*with* Kaliev, M. K.) The category of numbered abelian groups. (English summary) **99h:20089**

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Călugăreanu, Grigore Correction: "The $\mathcal{T}$-topology of an abelian group" [Studia Univ. Babeş-Bolyai Math. **40** (1995), no. 4, 1–12; MR 97j:54039]. (French. English summary) **99h:54054**

Fomin, A. A. (*with* Wickless, W. J.) Self-small mixed abelian groups G with $G/T(G)$ finite rank divisible. (English summary) **99j:20061**

Wickless, W. J. *see* **Fomin, A. A., 99j:20061**

20K45 Topological methods [see also 22A05, 22B05]

Protasov, I. V. Partitions of direct products of groups. (Russian. English and Ukrainian summaries) **99m:20135**

Items with secondary classifications in 20K45

McPhail, Carolyn E. *see* **Morris, Sidney A., 99j:22003**

Morris, Sidney A. (*with* McPhail, Carolyn E.) The variety of topological groups generated by the class of all Banach spaces. (English summary) **99j:22003**

(Orsatti, Adalberto) *see* **Salce, Luigi, 99j:01024**

Salce, Luigi Adalberto Orsatti's contribution to abelian group theory. **99j:01024**

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Călugăreanu, Grigore Essential-pure subgroups of abelian groups. **99d:20091**

Kalenova, B. S. (*with* Khisamiev, N. G.) On homogeneous abelian groups. (Russian. Russian summary) **99a:20060**

Khisamiev, N. G. *see* **Kalenova, B. S., 99a:20060**

Items with secondary classifications in 20K99

Călugăreanu, Grigore Coatomic lattices and related abelian group topics. (English summary) **99m:06012**

Ettinger, J. Mark Finitely presented partially ordered abelian groups. (English summary) **99a:06023**

Fomin, A. A. (*with* Mutzbauer, Otto) Abelian groups with an endomorphism with irreducible minimum polynomial. (English summary) **99c:13022**

Harcos, Gergely (*with* Ruzsa, Imre Z.) A problem on zero subsums in abelian groups. (English summary) **99f:11025**

Hébert, Michel Purity and injectivity in accessible categories. (English summary) **99c:18004**

Mutzbauer, Otto *see* **Fomin, A. A., 99c:13022**

Pardo, E. On the representation of simple Riesz groups. (English summary) **99h:06008**

Ruzsa, Imre Z. *see* **Harcos, Gergely, 99f:11025**

Stuber, Jürgen Superposition theorem proving for abelian groups represented as integer modules. (English summary) **99g:68184**

20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

20L05 General theory

Items with secondary classifications in 20L05

Boykett, Timothy H. H. Combinatorial construction of one-dimensional reversible cellular automata. (English summary) **99c:68179**

20L10 Connections with group theory

Gilbert, N. D. Monoid presentations and associated groupoids. (English summary) **99d:20092**

20L15 Connections with topology

Mucuk, Osman An application of monodromy groupoid. (English and Turkish summaries)

Items with secondary classifications in 20L15

Gilbert, N. D. Monoid presentations and associated groupoids. (English summary) **99d:20092**

20Mxx Semigroups

Items with secondary classifications in 20Mxx

(Bonzini, Celestina) *see* **Semigroups, 99f:20003**

(Cherubini, Alessandra) *see* **Semigroups, 99f:20003**

(Fountain, John B.) *see* **Semigroups, formal languages and groups, 99b:20001**

(Marchionna Tibiletti, Cesarina) *see* **Semigroups, 99f:20003**

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20M05 Free semigroups, generators and relations, word problems

Abdulrab, H. *see* **Makanin, G. S.; et al., 99c:20078**

van den Bergh, Michel *see* **Gateva-Ivanova, Tatiana, 99h:20090**

Birget, Jean-Camille Time-complexity of the word problem for semigroups and the Higman embedding theorem. (English summary) **99e:20069**

— Infinite string rewrite systems and complexity. (English summary) **99d:20093**

Delgado, Manuel[2] Abelian pointlikes of a monoid. (English summary) **99k:20106**

Doostie, H. Two classes of one-relator product of semigroups involving nilpotent kernels. (English summary) **99f:20092**

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— Weakly regular $*$-semigroups.
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Wan, Cui Zhen *see* **Zhu, Ping**[1]
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— *see also* **Zhang, Yu Fen**, **99m:20148**
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Zhang, Ronghua A note on orthodox semidirect products and wreath products of monoids. (English summary) **99m:20147**
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— *see also* **Wang, De Sheng; et al.**, **99m:20146**
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Fan, Suo Hai Strong retracts of graphs and the regularity of strong endomorphism monoids of graphs. (Chinese. English and Chinese summaries) **99j:05090**
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Jing, Feng Jie (*with* Chen, Hui[1]) The decomposition of a class of partially ordered abundant semigroups. (Chinese. English and Chinese summaries) **99m:06027**
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— (*with* Teclezghi, Beimnet) Endomorphisms of finite symmetric inverse semigroups. (English summary) **99c:20089**
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Exel, Ruy Partial actions of groups and actions of inverse semigroups. (English summary) **99b:46102**
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20M19 Orthodox semigroups

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— (*with* Teclezghi, Beimnet) Endomorphisms of symmetric semigroups of functions on a finite set. (English summary) **99k:20114**
— (*with* Teclezghi, Beimnet) Endomorphisms of finite full transformation semigroups. **99b:20093**
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Yu, Hongquan On distributions of cardinalities of row spaces of Boolean matrices. (English summary) **99i:15031**
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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

Antoine, Ramon On rigid monoids with right ACC_1. (English summary) **99a:20067**
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Liu, Hai Xia (*with* Yao, Hai Lou) Algebras whose basis semigroups are zero-direct unions of 0-$\mathcal{J}^*$-strict simple semigroups. (Chinese. English and Chinese summaries) **99c:16014**
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Doty, Stephen R. Representation theory of reductive normal algebraic monoids. **99i:20086**
Dutta, Tapan Kumar[1] (*with* Adhikari, Narayan Chandra) On ΓS-act. (English summary) **99f:20104**
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Seth, Arindam Representations of Γ-semigroups and regular Γ-semigroups. (English summary) **99g:20118**
Wang, Ning (*with* Liu, Zhong Kui) Monoids over which all strongly flat left acts are regular. (English summary) **99e:20079**
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Imaoka, Teruo *see* **Hall, T. E., 99m:20149**
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Movsisyan, Yu. M. Superidentities in algebras and varieties. (Russian) **99f:08002**
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Trokhimenko, V. S. v-regular Menger algebras. **99h:08006**
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20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Qxx, 68S05]

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Goralcik, P. (*with* Koubek, V.) On the disjunctive set problem. (English and French summaries) **99e:20080**
Ito, Masami[1] (*with* Kari, Lila; Thierrin, Gabriel) Two operators on languages related to shuffle products. (*see* **99a:20001**)
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Wang, Jing[1] Finite derivation type for semi-direct products of monoids. (English summary) **99k:20120**
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— *see also* **Dutta, Tapan Kumar**[1], **99g:20120**
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— (*with* Koppitz, Jörg) Finite monoids of hypersubstitutions of type $\tau = (2)$. **99c:08011**
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Kehayopulu, Niovi On normal ordered semigroups. (English summary) **99m:06028**
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20Nxx Other generalizations of groups

20N02 Sets with a single binary operation (groupoids)

Dehornoy, Patrick Free zeropotent left distributive systems. (English summary) **99f:20110**
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20N05 Loops, quasigroups [see also 05Bxx]

Adeniran, John Olusola (*with* Solarin, A. R. T.) A note on automorphic inverse property loops. (English and Serbian summaries) **99g:20123**
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Drápal, Aleš On free Frobenius groups generated by left translations. (English summary) **99b:20102**
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Im, Bokhee Kinematic structures of certain loops. (English summary) **99h:20103**
— (*with* Ko, Hayi-Joo) Web loops and webs with reflections. (English summary) **99c:20097**
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Kamran, M. S. (*with* Mushtaq, Qaiser) LA-groups as quotients of left inverse quasigroups. (English summary) (*see* **99g:00046**)
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Nagy, Gábor P. Group invariants of certain Burn loop classes. (English summary) **99m:20162**
Nagy, Peter T. (*with* Strambach, Karl) Loops, their cores and symmetric spaces. (English summary) **99h:20105**
Paal, Eugen Continuous Moufang transformations. (English summary) **99i:20089**
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Ursu, V. I. On equations algorithmically solvable in commutative Moufang loops. (English summary) **99h:20107**
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Johnson, Corlis Powell Group distributive quasigroup algebras. (English summary) **99m:12014**
Karzel, Helmut From nearrings and nearfields to *K*-loops. **99h:16070**
— Geometric reflection structures and their corresponding loops. **99m:51022**
Kunen, Kenneth Alternative loop rings. (English summary) **99a:17032**
Kuusk, P. (*with* Paal, Eugen) Some applications of geodesic loops and nonlinear geometric algebra in the theory of gravity. (English summary) **99a:83053**
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Movsisyan, Yu. M. Superidentities in algebras and varieties. (Russian) **99f:08002**
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Ungar, Abraham A. From Pythagoras to Einstein: the hyperbolic Pythagorean theorem. (English summary) **99k:51026**
Ursu, V. I. On some lattices of quasivarieties of commutative Moufang's loops. (English, Russian and Moldavian summaries) **99b:08007**
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20N07 Mappings of loops

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20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Dewan, Sarita *see* **Dixit, V. N., 99b:20105** *and* **99e:20084**
Dixit, V. N. (*with* Dewan, Sarita) Congruence and Green's equivalence relation on ternary semigroup. (English summary) **99e:20084**
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20N15 *n*-ary systems

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Rusakov, S. A. Existence of *n*-ary *rs*-groups. (Russian. Russian summary) (*see* **99g:20002**)
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20N20 Hypergroups

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— (*with* Zahedi, M. M.) Hypergroup and join space induced by a fuzzy subset. (English summary) **99d:20108**
Bukhshtaber, V. M. (*with* Rees, Elmer G.) Multivalued groups, n-Hopf algebras and n-ring homomorphisms. (English summary) **99f:20111**
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Freni, Domenico Contribution to matroidal hyperstructures. (Italian. English summary) **99g:20125**
Hasankhani, A. (*with* Zahedi, M. M.) On F-polygroups and fuzzy sub-F-polygroups. (English summary) **99b:20106**
Leoreanu, Violeta *see* **Corsini, Piergiulio, 99d:20109**
Massouros, Christos G. Hypergroups and geometry. (French summary)
Mittas, Jean M- et quasi M-hypergroupes polysymétriques et 1-hypergroupes. (English summary) [M-polysymmetric and quasi-M-polysymmetric hypergroups and 1-hypergroups] (*see* **99d:53001**)
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Rosenberg, I. G. Wall monoids. I. (English summary) (*see* **98c:20004**)
Tallini, Giuseppe Dimensions in multivalued algebraic structures. **99m:20163**
Vougiouklis, Thomas Construction of H_v-structures with desired fundamental structures. (English summary) **99e:20085**
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Zhang, Zhen Liang The structures and classification of hypergroups. (Chinese. English and Chinese summaries)
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Lee, Jaewon Two theorems for Poisson measures on hypergroups. (English summary) **99f:28018**
Olson, D. M. (*with* Ward, V. K.) A note on multiplicative hyperrings. (English summary)
Rosenberg, I. G. An interface between algebra and combinatorics. (*see* **99c:00012**)
Sunder, V. S. (*with* Wildberger, N. J.) Actions of finite hypergroups and examples. (English summary) **99c:43011**
Vougiouklis, Thomas Affine Lie algebras and hyperstructures. (English summary) (*see* **99d:53001**)
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20N25 Fuzzy groups [see also 04A72]

Ajmal, Naseem (*with* Thomas, K. V.) The join of fuzzy algebraic substructures of a group and their lattices. (English summary) **99k:20126**
Al-Khamees, Yousif Fuzzy direct product of fuzzy subgroups of subgroups. (English summary) **99c:20099**
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22–02 Research exposition (monographs, survey articles)

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22–06 Proceedings, conferences, collections, etc.

(Hilgert, Joachim) *see* **Problems: Positivity in Lie theory, 99f:22001**
(Lawson, Jimmie D.) *see* **Problems: Positivity in Lie theory, 99f:22001**
(Neeb, Karl-Hermann) *see* **Problems: Positivity in Lie theory, 99f:22001**
(Uspenskii, Vladimir V.) *see* **Special Issue: Topological groups, 99a:22001**
(Vinberg, Ernest B.) *see* **Problems: Positivity in Lie theory, 99f:22001**

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(Deninger, Christopher) *see* **Series of the Mathematical Institute of the University of Münster. Series 3, 99m:00023**
(Dikranjan, Dikran N.) *see* **Abelian groups, module theory, and topology, 99f:00028**
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22A10 Analysis on general topological groups

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22A15 Structure of topological semigroups

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Protasov, I. V. Topological center of a semigroup of free ultrafilters. (Russian. Russian summary) **99f:22005**
Pym, John *see* **Bordbar, B., 99g:22003**
Robbie, Desmond (*with* Svetlichny, Sergey) Wallace semigroups and topological loops. (English summary) **99e:22007**
Roy, Kathleen (*with* So, Shing-Seung) Right simple subsemigroups and right subgroups of a compact semigroup. (English summary) **99i:22008**
So, Shing-Seung *see* **Roy, Kathleen, 99i:22008**
Svetlichny, Sergey *see* **Robbie, Desmond, 99e:22007**
Tomita, Artur Hideyuki On the square of Wallace semigroups and topological free abelian groups. (English summary) **99k:22007**
Zelenyuk, E. G. Finite groups in $\beta\mathbf{N}$ are trivial. **99b:22004**
Zeng, Wei-Bin *see* **Lau, Ka-Sing; et al., 99f:22004**

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Bergelson, Vitaly (*with* Hindman, Neil; Leader, Imre) Additive and multiplicative Ramsey theory in the reals and the rationals. (English summary) **99m:05159**
Hindman, Neil (*with* Strauss, Dona Papert) ★ Algebra in the Stone-Čech compactification. **99j:54001**
— *see also* **Bergelson, Vitaly; et al., 99m:05159**
Köhler, Angela Semigroup compactifications and chaotic flows. (English summary) **99e:58062**
Leader, Imre *see* **Bergelson, Vitaly; et al., 99m:05159**

Megrelishvili, Michael G. Fragmentability and continuity of semigroup actions. (English summary) **99c:54053**
Mel'nikov, O. V. (*with* Nesterovich, T. V.) Some properties of the semigroup of formations as a topological semigroup. (Russian. English summary) **99h:20029**
Nesterovich, T. V. *see* **Mel'nikov, O. V., 99h:20029**
San Martin, Luiz A. B. (*with* Tonelli, Pedro A.) Transitive actions of semigroups in semisimple Lie groups. (English summary) **99j:22010**
Serovaĭskiĭ, S. Ya. A multiplicative topological groupoid of distributions. (Russian. English, Russian and Kazakh summaries) **99i:46029**
Strauss, Dona Papert *see* **Hindman, Neil, 99j:54001**
Tomita, Artur Hideyuki On sequentially compact both-sides cancellative semigroups with sequentially continuous addition. (English summary) **99h:54056**
Tonelli, Pedro A. *see* **San Martin, Luiz A. B., 99j:22010**

22A20 Analysis on topological semigroups

Ebrahimi-Vishki, Hamid Reza The universal V-compactification of a semigroup. (English summary) **99e:22008**
Junghenn, H. D. Almost periodic compactifications of product flows. **99k:22008**

Items with secondary classifications in 22A20

Khadem-Maboudi, A. A. (*with* Pourabdollah, Mohammad Ali) Almost periodic type function spaces on weighted semitopological semigroups. (English summary) **99g:43009**
Lashkarizadeh Bami, Mahmood Function algebras on weighted topological semigroups. (English summary) **99c:43009**
— Ideals of $M(S)$ as ideals of $\mathrm{LUC}(S)^*$ of a compactly cancellative topological semigroup S. **99j:43004**
Pourabdollah, Mohammad Ali *see* **Khadem-Maboudi, A. A., 99g:43009**
Riazi, Abdolhamid Extremely amenable locally compact semigroups. (English summary) **99e:43002**
Walter, Martin E. Semigroups of positive definite functions and related topics. (English summary) **99c:43007**

22A22 Topological groupoids (including differentiable and Lie groupoids)

Items with secondary classifications in 22A22

Butz, Carsten (*with* Moerdijk, Ieke) Representing topoi by topological groupoids. (English summary) **99i:18005**
Kumjian, Alex (*with* Pask, David; Raeburn, Iain) Cuntz-Krieger algebras of directed graphs. (English summary) **99i:46049**
Liu, Zhang-Ju (*with* Weinstein, Alan; Xu, Ping[1]) Dirac structures and Poisson homogeneous spaces. (English summary) **99g:58053**
Moerdijk, Ieke *see* **Butz, Carsten, 99i:18005**
Pask, David *see* **Kumjian, Alex; et al., 99i:46049**
Raeburn, Iain *see* **Kumjian, Alex; et al., 99i:46049**
Ramsay, Arlan Lacunary sections for locally compact groupoids. (English summary) **99c:28059**
Renault, Jean The Fourier algebra of a measured groupoid and its multipliers. (English summary) **99a:43004**
Sheu, Albert J. L. Groupoids and quantization. (English summary) **99j:58086**
Weinstein, Alan *see* **Liu, Zhang-Ju; et al., 99g:58053**
Xu, Ping[1] *see* **Liu, Zhang-Ju; et al., 99g:58053**

22A25 Representations of general topological groups and semigroups

Basit, Bolis (*with* Pryde, A. J.) Strong continuity of semigroup homomorphisms. (English summary) **99m:22003**
Danilenko, A. I. Gårding domains for unitary representations of countable inductive limits of locally compact groups. (English, Russian and Ukrainian summaries) **99c:22004**
Lashkarizadeh Bami, Mahmood The existence of faithful continuous representations on certain topological semigroups. (English summary) **99e:22009**
Neeb, Karl-Hermann On some classes of multiplicity free representations. **99e:22010**
Pestov, Vladimir G. Abelian topological groups without irreducible Banach representations. (English summary) **99h:22001**
Pryde, A. J. *see* **Basit, Bolis, 99m:22003**
Shtern, A. I. Almost representations and quasi-symmetry. (English summary) **99g:22004**

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Lashkarizadeh Bami, Mahmood Representations of certain topological semigroups. **99d:43002**

22A30 Other topological algebraic systems and their representations

Khamza, Buzhuf *see* **Mukhin, V. V., 99h:22002**
Mucuk, Osman Locally topological groupoids. (English and Turkish summaries) **99f:22006**
Mukhin, V. V. (*with* Khamza, Buzhuf) On the embedding of n-ary abelian topological semigroups into n-ary topological groups. (Russian. English summary) **99h:22002**
Sabinin, Lev V. On the infinitesimal theory of reductive loops. (Russian)
Zelenyuk, E. G. Finite groups in $\beta\mathbf{N}$ are trivial. (Russian. English summary) **99b:22005**

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Kuusk, P. (*with* Paal, Eugen) Some applications of geodesic loops and nonlinear geometric algebra in the theory of gravity. (English summary) **99a:83053**
Lee, Dong-Soo[1] (*with* Ryu, Dong Neun) Profinite topological BCK-algebra. (English summary) **99h:54053**
Magill, Kenneth D., Jr. Functional equations and topological N-groups. (English summary) **99b:16070**
Osipov, E. P. (*with* Tolkachev, G. V.) Sugawara construction for the birepresentation of the Moufang loop. (English summary) **99c:17043**
Paal, Eugen *see* **Kuusk, P., 99a:83053**
Pavel, Liliana On quasi-positive definite functions and representations of hypergroups in QP_n spaces. (English summary) **99d:43013**
Reznichenko, E. A. (*with* Uspenskiĭ, Vladimir V.) Pseudocompact Mal'tsev spaces. (English summary) **99e:54019**
Ryu, Dong Neun *see* **Lee, Dong-Soo[1], 99h:54053**
Tolkachev, G. V. *see* **Osipov, E. P., 99c:17043**
Uspenskiĭ, Vladimir V. *see* **Reznichenko, E. A., 99e:54019**

22A99 None of the above, but in this section

Fang, Jin Xuan *see* **Meng, Guang Wu, 99d:22007**
Meng, Guang Wu (*with* Fang, Jin Xuan) L-fuzzy homomorphisms between L-fuzzy topological groups. (Chinese. English and Chinese summaries) **99d:22007**

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Das, Pratulananda Fuzzy topology on fuzzy sets: product fuzzy topology and fuzzy topological groups. (English summary) **99j:54010**
Hušek, Miroslav Mazur-like topological linear spaces and their products. (English summary) **99a:46003**
Megrelishvili, Michael G. (*with* Scarr, Tzvi) Constructing Tychonoff G-spaces which are not G-Tychonoff. (English summary) (*see* **99a:54002**)
Pestov, Vladimir G. Independence of almost periodicity upon the topology of the acting group. (English summary) **99i:54055**
Platonov, S. S. Invariant subspaces in function spaces of polynomial growth on $\mathbf{R}^N$. (Russian. English and Russian summaries) **99g:43004**
Scarr, Tzvi *see* **Megrelishvili, Michael G., (99a:54002)**
Tomita, Artur Hideyuki On infinite products of countably compact groups. (English summary) **99b:54065**

22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

Abels, Herbert (*with* Tiemeyer, A.) Compactness properties of locally compact groups. (English summary) **99f:22007**
Galindo, Jorge (*with* Hernández, Salvador) Transmission of continuity to the Bohr topology. (English summary) **99b:22006**
Hernández, Salvador *see* **Galindo, Jorge, 99b:22006**
Loth, Peter Splitting in locally compact abelian groups. **99e:22011**
Tiemeyer, A. *see* **Abels, Herbert, 99f:22007**

Items with secondary classifications in 22B05

Chasco Ugarte, Ma. Jesús (*with* Martín-Peinador, E.) Pontryagin reflexive groups are not determined by their continuous characters. (English summary) **99g:43006**
Hernández, Salvador The dimension of an LCA group in its Bohr topology. (English summary) **99e:54027**
Martín-Peinador, E. *see* **Chasco Ugarte, Ma. Jesús, 99g:43006**
Tomita, Artur Hideyuki (*with* Trigos-Arrieta, F. Javier) Suitable sets in products of topological groups and in groups equipped with the Bohr topology. (English summary) **99m:22002**
Trigos-Arrieta, F. Javier *see* **Tomita, Artur Hideyuki, 99m:22002**

22B10 Structure of group algebras of LCA groups

Items with secondary classifications in 22B10

Abels, Herbert (*with* Tiemeyer, A.) Compactness properties of locally compact groups. (English summary) **99f:22007**
Galindo, Jorge (*with* Hernández, Salvador) Transmission of continuity to the Bohr topology. (English summary) **99b:22006**
Hernández, Salvador *see* **Galindo, Jorge, 99b:22006**
Tiemeyer, A. *see* **Abels, Herbert, 99f:22007**

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

Varopoulos, Nicholas T. Measure algebras of a locally compact abelian group. (*see* **99f:00041**)

22C05 Compact groups

Chojnacki, Wojciech A new proof of a theorem concerning decomposable groups. (English summary) **99i:22009**
Comfort, W. W. (*with* Gladdines, Helma; van Mill, Jan) Proper pseudocompact subgroups of pseudocompact abelian groups. (English summary) **99g:22005**
Gladdines, Helma *see* **Comfort, W. W.; et al., 99g:22005**
Grekas, S. (*with* Mercourakis, S.) On the measure-theoretic structure of compact groups. (English summary) **99b:22007**
Mercourakis, S. *see* **Grekas, S., 99b:22007**
Miculescu, Radu A note about coordinate functions. (Romanian. English summary)

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Moran, Alan The right regular representation of a compact right topological group. (English summary) **99k:22009**

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Backhouse, N. B. (*with* Rembieliński, Jakub; Tybor, W.) Class operators for compact Lie groups. **99f:22020**
Boekholt, Sven Compact Lie groups with isomorphic homotopy groups. (English summary) **99a:57035**
Cauty, Robert Espaces de Maltsev compacts qui ne sont pas des rétractes de groupes compacts. (English summary) [Compact Mal'tsev spaces that are not retracts of compact groups] **99c:55011**
Dikranjan, Dikran N. Chains of pseudocompact group topologies. (English summary) **99a:22003**
— (*with* Uspenskii, Vladimir V.) Categorically compact topological groups. (English summary) **99c:22001**
Hofmann, Karl H. (*with* Morris, Sidney A.) ★ The structure of compact groups. **99k:22001**
Itzkowitz, Gerald L. Pseudocompactness, measurability, and category in compact groups. (English summary) **99b:54061**
— Cardinal numbers associated with dense pseudocompact, countably compact, and ω-bounded subgroups. (English summary) **99b:54062**
Jakubík, Ján Closed convex l-subgroups and radical classes of convergence l-groups. (English summary) **99f:06022**
Kedlaya, Kiran S. Product-free subsets of groups. **99m:20042**
Lewis, L. Gaunce, Jr. The category of Mackey functors for a compact Lie group. (English summary) **99b:19001**
Loth, Peter Splitting in locally compact abelian groups. **99e:22011**
Moran, Alan Minimal normal systems of compact right topological groups. (English summary) **99e:22003**
Morris, Sidney A. *see* **Hofmann, Karl H., 99k:22001**
Niculescu, Constantin P. Birkhoff recurrence theorem and combinatorial properties of abelian semigroups. (English summary) **99i:20082**
Pink, Richard Compact subgroups of linear algebraic groups. (English summary) **99g:20087**
Pisier, Gilles Quadratic forms in unitary operators. (English summary) **99a:47057**
Rembieliński, Jakub *see* **Backhouse, N. B.; et al., 99f:22020**
Siudut, Stanisław Cauchy difference operator in $\mathscr{L}^p$-spaces. (English summary) **99d:39029**
Tybor, W. *see* **Backhouse, N. B.; et al., 99f:22020**
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Yamaguchi, Hiroshi[2] The theorem of F. and M. Riesz on certain (noncommutative) compact groups. (Japanese) (*see* **99a:17002**)

22Dxx Locally compact groups and their algebras

Chandrasekharan, K. ★ A course on topological groups. (English summary) **99k:22010**

22D05 General properties and structure of locally compact groups

Banaszczyk, M. (*with* Banaszczyk, Wojciech) The Dvoretzky-Hanani theorem for the group "$ax + b$". (English summary) **99c:22005**
Banaszczyk, Wojciech *see* **Banaszczyk, M., 99c:22005**
Berestovskiĭ, V. N. (*with* Plaut, Conrad; Stallman, Cornelius) Geometric groups. I. (English summary) **99f:22008**
Borel, Armand Groupes localement compacts. [Locally compact groups] (*see* **99f:00033**)
Le Quoc Han Maximal periodic subgroups of finite-dimensional locally compact groups. (English summary) **99c:22006**
Plaut, Conrad *see* **Berestovskiĭ, V. N.; et al., 99f:22008**
Serre, Jean-Pierre Extensions de groupes localement compacts (d'après Iwasawa et Gleason). [Extensions of locally compact groups (after Iwasawa and Gleason)] (*see* **99f:00033**)
Stallman, Cornelius *see* **Berestovskiĭ, V. N.; et al., 99f:22008**

Items with secondary classifications in 22D05

Cartan, Henri Mémoire de Gleason sur le 5e problème de Hilbert. [Memoir of Gleason on Hilbert's fifth problem] (*see* **99f:00034**)
Comfort, W. W. (*with* Soundararajan, T.; Trigos-Arrieta, F. Javier) Determining a weakly locally compact group topology by its system of closed subgroups. (English summary) **99d:22002**
Dani, S. G. (*with* Raja, C. R. E.) A note on Tortrat groups. (English summary) **99g:60012**
Godement, Roger Théorie des caractères dans les groupes unimodulaires. [Theory of characters in unimodular groups] (*see* **99f:00033**)
Hernández, Constancio (*with* Tkachenko, M. G.) Subgroups of **R**-factorizable groups. (English summary) **99i:54051**
Megrelishvili, Michael G. (*with* Scarr, Tzvi) Constructing Tychonoff G-spaces which are not G-Tychonoff. (English summary) (*see* **99a:54002**)
Moran, Alan The right regular representation of a compact right topological group. (English summary) **99k:22009**
Raja, C. R. E. *see* **Dani, S. G., 99g:60012**
Ross, Kenneth Allen (*with* Willis, George) Riemann sums and modular functions on locally compact groups. (English summary) **99h:43012**
Scarr, Tzvi *see* **Megrelishvili, Michael G., (99a:54002)**
Shtern, A. I. Triviality and continuity of pseudocharacters and pseudorepresentations. (English summary) **99d:22008**
Soundararajan, T. *see* **Comfort, W. W.; et al., 99d:22002**
Tkachenko, M. G. *see* **Hernández, Constancio, 99i:54051**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 99d:22002**
Turnwald, Gerhard On the continuity of the evaluation mapping associated with a group and its character group. (English summary) **99d:22005**
Willis, George *see* **Ross, Kenneth Allen, 99h:43012**

22D10 Unitary representations of locally compact groups

Godement, Roger Théorie des caractères dans les groupes unimodulaires. [Theory of characters in unimodular groups] (*see* **99f:00033**)
— Introduction aux travaux de A. Selberg. [Introduction to the works of A. Selberg] (*see* **99f:00036**)
He, Jian Xun[3] (*with* Peng, Lizhong) Admissible wavelets on the unit disk. (English summary) **99b:22008**
Kangni, Kinvi (*with* Touré, Saliou) Transformation de Fourier sphérique de type δ. (English and French summaries) [Spherical Fourier transform of type δ] **99c:22007**
Liu, He Ping Wavelet transforms and symmetric tube domains. (English summary) **99j:22004**
Louvet, Nicolas Cohomological rigidity for lattices in products of groups. (English and French summaries) **99h:22003**
Peng, Lizhong *see* **He, Jian Xun[3], 99b:22008**
Rapinchuk, Andrei S. On the finite-dimensional unitary representations of Kazhdan groups. (English summary) **99h:22004**
Touré, Saliou *see* **Kangni, Kinvi, 99c:22007**

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Bekka, Mohammed El Bachir (*with* Louvet, Nicolas) On a variant of Kazhdan's property (T) for subgroups of semisimple groups. (English and French summaries) **99b:22019**
Brega, Alfredo O. On the unitary dual of Spin($2n$, **C**). (English summary) **99c:22019**
Cartier, Pierre Vecteurs analytiques (d'après E. Nelson). [Analytic vectors (after E. Nelson)] (*see* **99f:00037**)
— Analyse spectrale et théorème de prédiction statistique de Wiener. [Spectral analysis and Wiener's statistical prediction theorem] (*see* **99f:00038**)
Dixmier, Jacques Fonctions sphériques (d'après R. Godement). [Spherical functions (after R. Godement)] (*see* **99f:00034**)
Godement, Roger La formule des traces de Selberg considérée comme source de problèmes mathématiques [MR 32 #164]. [The Selberg trace formula considered as a source of mathematical problems] (*see* **99f:00040**)
Louvet, Nicolas *see* **Bekka, Mohammed El Bachir, 99b:22019**
Pavel, Liliana On a generalization of the Mackey induction procedure. (English summary) **99k:22011**
Rapinchuk, Andrei S. On an approximation property for nondiscrete inequivalent representations of finitely generated groups. (English and French summaries) **99i:20057**
Robertson, A. Guyan (*with* Steger, Tim) Negative definite kernels and a dynamical characterization of property (T) for countable groups. (English summary) **99c:22008**
Shalom, Yehuda Rigidity and cohomology of unitary representations. **99h:22012**
Steger, Tim *see* **Robertson, A. Guyan, 99c:22008**

22D12 Other representations of locally compact groups

Dixmier, Jacques Fonctions sphériques (d'après R. Godement). [Spherical functions (after R. Godement)] (*see* **99f:00034**)
Muminov, K. K. The property ($t\alpha$) for locally compact connected groups. **99h:22005**
Platonov, S. S. On the one-to-one correspondence between invariant subspaces in some spaces. (Russian. Russian summary)
Shin'ya, Hitoshi Spherical matrix functions and Banach representability for compactly generated locally compact motion groups. **99e:22012**
Shtern, A. I. Triviality and continuity of pseudocharacters and pseudorepresentations. (English summary) **99d:22008**

Items with secondary classifications in 22D12

Aniello, Paolo (*with* Cassinelli, Gianni; De Vito, Ernesto; Levrero, Alberto) Wavelet transforms and discrete frames associated to semidirect products. (English summary) **99c:42055**
Cartier, Pierre Vecteurs analytiques (d'après E. Nelson). [Analytic vectors (after E. Nelson)] (*see* **99f:00037**)
Cassinelli, Gianni *see* **Aniello, Paolo; et al., 99c:42055**
Cowling, Michael The predual of the space of convolutors on a locally compact group. (English summary) **99g:43001**
De Vito, Ernesto *see* **Aniello, Paolo; et al., 99c:42055**
Führ, Hartmut Continuous wavelet transforms with abelian dilation groups. (English summary) **99c:42059**
Levrero, Alberto *see* **Aniello, Paolo; et al., 99c:42055**
Pavel, Liliana On a generalization of the Mackey induction procedure. (English summary) **99k:22011**
Shtern, A. I. Almost representations and quasi-symmetry. (English summary) **99g:22004**

22D15 Group algebras of locally compact groups

Duchamp, Gérard (*with* Reutenauer, Christophe) Un critère de rationalité provenant de la géométrie non commutative. (English summary) [A rationality criterion from noncommutative geometry] **99d:22009**
Farhadi, Hamid-Reza Characterization of compact and abelian locally compact groups based on the isomorphisms of the algebras $L^1(G)^{**}$. (English summary) (*see* **99a:00041**)
Filali, Mahmoud Minimal left ideals in the group algebra and its second conjugate. (English summary) **99b:22009**
— Finite-dimensional left ideals in some algebras associated with a locally compact group. (English summary) **99j:22005**
Granirer, Edmond E. When quotients of the Fourier algebra $A(G)$ are ideals in their bidual and when $A(G)$ has WCHP. (English summary) **99h:22006**
Reutenauer, Christophe *see* **Duchamp, Gérard, 99d:22009**

Items with secondary classifications in 22D15

Berezanskiĭ, Yuriĭ Makarovich (*with* Kalyuzhnyi, A. A.) ★ Harmonic analysis in hypercomplex systems. (English summary) **99d:43010**
Eymard, Pierre Homomorphismes des algèbres de groupe (d'après Paul J. Cohen). [Group algebra homomorphisms (after Paul J. Cohen)] (*see* **99f:00039**)

Farhadi, Hamid-Reza Bipositive isomorphisms between the second duals of group algebras of locally compact groups. (English summary) **99d:43003**
Granirer, Edmond E. The Schur property and the WRNP for submodules of the dual of the Fourier algebra $A(G)$. (English and French summaries) **99a:43003**
— Amenability and semisimplicity for second duals of quotients of the Fourier algebra $A(G)$. (English summary) **99e:43006**
Hu, Zhiguo The von Neumann algebra $\mathrm{VN}(G)$ of a locally compact group and quotients of its subspaces. (English summary) **99b:22010**
Kalyuzhnyi, A. A. *see* **Berezanskiĭ, Yuriĭ Makarovich**, **99d:43010**
(Malyshev, P. V.) *see* **Berezanskiĭ, Yuriĭ Makarovich**, **99d:43010**

22D20 Representations of group algebras

Items with secondary classifications in 22D20

Grønbæk, Niels An imprimitivity theorem for representations of locally compact groups on arbitrary Banach spaces. (English summary) **99d:22010**
Mautner, Friederich Ignaz Théorie des idéaux dans certaines algèbres d'un groupe. [Theory of ideals in certain group algebras] (*see* **99f:00037**)
Nasr-Isfahani, A. R. Representations of weighted hypergroups and their algebras. (English summary) **99e:43007**
Pisier, Gilles The similarity degree of an operator algebra. (English summary) **99c:46066**

22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Hu, Zhiguo The von Neumann algebra $\mathrm{VN}(G)$ of a locally compact group and quotients of its subspaces. (English summary) **99b:22010**
Kaniuth, Eberhard The Helson-Reiter theorem for a class of nilpotent discrete groups. (English summary) **99b:22011**
Landstad, M. B. (*with* Raeburn, Iain) Equivariant deformations of homogeneous spaces. (English summary) **99b:22012**
Lehner, Franz Free operators with operator coefficients. **99a:22009**
Raeburn, Iain *see* **Landstad, M. B.**, **99b:22012**
Ramsay, Arlan (*with* Walter, Martin E.) Fourier-Stieltjes algebras of locally compact groupoids. (English summary) **99a:22010**
Reyes, Edgar N. Commuting operators and class functions. (English summary) **99f:22009**
Walter, Martin E. *see* **Ramsay, Arlan**, **99a:22010**

Items with secondary classifications in 22D25

Baaj, Saad (*with* Skandalis, Georges) Transformations pentagonales. (English and French summaries) [Pentagonal transformations] **99k:28018**
Bichon, Julien Mesure de Haar sur une algèbre de Hopf et groupes quantiques réels. (English summary) [Haar measure on a Hopf algebra and real quantum groups] **99g:16045**
Böhm, Gabriella (*with* Szlachányi, Kornél) Weak C^*-Hopf algebras: the coassociative symmetry of non-integral dimensions. (English summary) **99b:16056**
Bratteli, Ola (*with* Jorgensen, Palle E. T.) Isometries, shifts, Cuntz algebras and multiresolution wavelet analysis of scale N. (English summary) **99k:46094b**
— (*with* Jorgensen, Palle E. T.) Iterated function systems and permutation representations of the Cuntz algebra. (English summary) **99k:46094a**
Dixmier, Jacques Anneaux d'opérateurs et représentations des groupes. [Rings of operators and representations of groups] (*see* **99f:00033**)
Dorofeev, S. V. (*with* Thomsen, Klaus) Factors from ergodic theory and group-subgroup subfactors. (English summary) **99d:46090**
Echterhoff, Siegfried (*with* Kaliszewski, S.; Raeburn, Iain) Crossed products by dual coactions of groups and homogeneous spaces. (English summary) **99h:46124**
Hu, Zhiguo Spectrum of commutative Banach algebras and isomorphism of C^*-algebras related to locally compact groups. (English summary) **99f:46073**
Jorgensen, Palle E. T. *see* **Bratteli, Ola**, **99k:46094a** *and* **99k:46094b**
Kaliszewski, S. (*with* Quigg, John) Imprimitivity for C^*-coactions of non-amenable groups. (English summary) **99a:46118**
— *see also* **Echterhoff, Siegfried; et al.**, **99h:46124**
Mantero, A. M. (*with* Zappa, Anna) The reduced group C^*-algebra of a triangle building. (English summary) **99g:46080**
Ng, Chi-Keung Morphisms of multiplicative unitaries. (English summary) **99i:46044**
Niknam, A. Infinitesimal generators of C^*-algebras. (English summary) **99j:46083**
Pisier, Gilles Quadratic forms in unitary operators. (English summary) **99a:47057**
Pourabdollah, Mohammad Ali Semicompactifications of transformation semigroups and their corresponding lattice of C^*-subalgebras. (English summary) **99j:46082**
Quigg, John *see* **Kaliszewski, S.**, **99a:46118**
Raeburn, Iain *see* **Echterhoff, Siegfried; et al.**, **99h:46124**
Ramagge, Jacqui (*with* Robertson, A. Guyan; Steger, Tim) A Haagerup inequality for $\tilde{A}_1 \times \tilde{A}_1$ and $\tilde{A}_2$ buildings. (English summary) **99j:20046**
Robertson, A. Guyan *see* **Ramagge, Jacqui; et al.**, **99j:20046**
Sauvageot, Jean-Luc Strong Feller noncommutative kernels, strong Feller semigroups and harmonic analysis. **99c:46079**
Sheu, Albert J. L. Groupoids and compact quantum groups. **99e:46093**
Skandalis, Georges *see* **Baaj, Saad**, **99k:28018**
Steger, Tim *see* **Ramagge, Jacqui; et al.**, **99j:20046**
Sudo, Takahiro Dimension theory of the C^*-algebras of Lie groups. **99a:46126**
— (*with* Takai, Hiroshi) Stable rank of the C^*-algebras of solvable Lie groups of type I. (English summary) **99a:46125**
Szlachányi, Kornél *see* **Böhm, Gabriella**, **99b:16056**
Takai, Hiroshi *see* **Sudo, Takahiro**, **99a:46125**
Thomsen, Klaus *see* **Dorofeev, S. V.**, **99d:46090**
Vainerman, Leonid 2-cocycles and twisting of Kac algebras. (English summary) **99b:46113**
Valette, Alain On Godement's characterisation of amenability. (English summary) **99e:43003**
Vasilevskiĭ, N. L. C^*-algebras generated by orthogonal projections and their applications. (English summary) **99e:46074**
Zappa, Anna *see* **Mantero, A. M.**, **99g:46080**

22D30 Induced representations

Bruhat, François Représentations induites des groupes localement compacts. [Induced representations of locally compact groups] (*see* **99f:00034**)
Grønbæk, Niels An imprimitivity theorem for representations of locally compact groups on arbitrary Banach spaces. (English summary) **99d:22010**
Pavel, Liliana On a generalization of the Mackey induction procedure. (English summary) **99k:22011**

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Godement, Roger Représentations induites des groupes de Lie. [Induced representations of Lie groups] (*see* **99f:00035**)
— Représentations induites des groupes semi-simples. [Induced representations of semisimple groups] (*see* **99f:00035**)

22D35 Duality theorems

Items with secondary classifications in 22D35

Bichon, Julien Mesure de Haar sur une algèbre de Hopf et groupes quantiques réels. (English summary) [Haar measure on a Hopf algebra and real quantum groups] **99g:16045**
Vainerman, Leonid 2-cocycles and twisting of Kac algebras. (English summary) **99b:46113**
Van Daele, Alfons Multiplier Hopf algebras and duality. (English summary) **99g:16053**

22D40 Ergodic theory on groups [see also 28Dxx, 43A60]

Fujiwara, Koji (*with* Nevo, Amos) Maximal and pointwise ergodic theorems for word-hyperbolic groups. (English summary) **99j:22006**
Mozes, Shahar (*with* Weiss, Benjamin) Minimality and unique ergodicity for subgroup actions. (English and French summaries) **99j:22007**
Nevo, Amos *see* **Fujiwara, Koji**, **99j:22006**
Robertson, A. Guyan (*with* Steger, Tim) Negative definite kernels and a dynamical characterization of property (T) for countable groups. (English summary) **99c:22008**
Steger, Tim *see* **Robertson, A. Guyan**, **99c:22008**
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Adams, Scot Another proof of Moore's ergodicity theorem for $\mathrm{SL}(2, \mathbf{R})$. **99a:28019**
Einsiedler, M. (*with* Schmidt, Klaus[1]) Markov partitions and homoclinic points of algebraic $\mathbf{Z}^d$-actions. (English summary) **99f:58065**
Furman, Alex (*with* Weiss, Benjamin) On the ergodic properties of Cartan flows in ergodic actions of $\mathrm{SL}_2(\mathbf{R})$ and $\mathrm{SO}(n, 1)$. (English summary) **99a:58105**
Gaboriau, Damien Mercuriale de groupes et de relations. (English and French summaries) [Price-list for groups and relations] **99h:28034**
Glasner, Eli (*with* Weiss, Benjamin) Kazhdan's property T and the geometry of the collection of invariant measures. (English summary) **99f:28029**
Hof, A. Uniform distribution and the projection method. (English summary) **99g:54037**
Morris, Gary David (*with* Ward, Thomas B.) A note on mixing properties of invertible extensions. (English summary) **99j:28018**
Ormes, Nicholas S. Strong orbit realization for minimal homeomorphisms. (English summary) **99c:28053**
Schmidt, Klaus[1] *see* **Einsiedler, M.**, **99f:58065**
Skriganov, M. M. Ergodic theory on homogeneous spaces and the enumeration of lattice points in polyhedra. (Russian) **99b:11113**
Solomyak, Margarita On coincidence of entropies for two classes of dynamical systems. (English summary) **99h:58112**
Ward, Thomas B. Three results on mixing shapes. (English summary) **99e:28031**
— A family of Markov shifts (almost) classified by periodic points. (English summary) **99j:11089**
— *see also* **Morris, Gary David**, **99j:28018**
Weiss, Benjamin *see* **Furman, Alex**, **99a:58105** *and* **Glasner, Eli**, **99f:28029**

22D45 Automorphism groups of locally compact groups

Items with secondary classifications in 22D45

Jaworski, Wojciech Contractive automorphisms of locally compact groups and the concentration function problem. (English summary) **99c:60009**

22D99 None of the above, but in this section

Items with secondary classifications in 22D99

Voit, Michael Properties of subhypergroups. **99b:43006**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

Gorbatsevich, V. V. (*with* Onishchik, A. L.; Vinberg, Ernest B.) ★ Foundations of Lie theory and Lie transformation groups. **99c:22009**
(Kozlowski, Andrzej[2]) *see* **Gorbatsevich, V. V.; et al.**, **99c:22009**
Onishchik, A. L. *see* **Gorbatsevich, V. V.; et al.**, **99c:22009**
Vinberg, Ernest B. *see* **Gorbatsevich, V. V.; et al.**, **99c:22009**

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Lazard, Michel Groupes analytiques en caractéristique 0. [Analytic groups of characteristic 0] (*see* **99f:00034**)

Items with secondary classifications in 22E05

Arriola, Leon Applications of Lie groups to first order difference equations. (English summary) **99e:39006**
Lazard, Michel Lois de groupes et analyseurs. [Group laws and analyzers] (*see* **99f:00035**)

22E10 General properties and structure of complex Lie groups [see also 32M05]

Borel, Armand Sous-groupes compacts maximaux des groupes de Lie. [Maximal compact subgroups of Lie groups] (*see* **99f:00033**)
Cartan, Henri Mémoire de Gleason sur le 5e problème de Hilbert. [Memoir of Gleason on Hilbert's fifth problem] (*see* **99f:00034**)
Fan, C. K. (*with* Lusztig, George) Factorization of certain exponentials in Lie groups. (English summary) **99g:22006**
Laufer, Alexander The exponential map of $GL(N)$. (English summary) **99a:22011**
Lusztig, George *see* **Fan, C. K., 99g:22006**
Neeb, Karl-Hermann On the complex and convex geometry of Ol′shanskiĭ semigroups. (English and French summaries) **99e:22013**

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Günaydin, Murat (*with* Minic, Djordje) Singletons, doubletons and M-theory. (English summary) **99k:81079**
Minic, Djordje *see* **Günaydin, Murat, 99k:81079**
Moskowitz, Martin Correction and addenda to: "On the surjectivity of the exponential map for certain Lie groups" [Ann. Mat. Pura Appl. (4) **166** (1994), 129–143; MR 96b:22008]. **99d:22014**
Park, Dae Heui (*with* Suh, Dong Youp) Semialgebraic G CW complex structure of semialgebraic G spaces. (English summary) **99d:14061**
Sjögren, Peter *see* **Gaudry, Garth, 99k:43003**
Suh, Dong Youp *see* **Park, Dae Heui, 99d:14061**

22E15 General properties and structure of real Lie groups

de Aquino, V. M. *see* **Bellandi Filho, J.; et al., 99k:22012**
Bellandi Filho, J. (*with* Guzzo, M. M.; Fleitas, J. R.; de Aquino, V. M.) On the matricial representations of exponential operators. (English summary) **99k:22012**
Dwyer, William G. (*with* Wilkerson, C. W.) The elementary geometric structure of compact Lie groups. (English summary) **99g:22007**
Fleitas, J. R. *see* **Bellandi Filho, J.; et al., 99k:22012**
Guzzo, M. M. *see* **Bellandi Filho, J.; et al., 99k:22012**
Hashimoto, Yoshitake On Macdonald's formula for the volume of a compact Lie group. (English summary) **99c:22010**
Hatano, Naomichi *see* **Kobayashi, Hiroto; et al., 99d:22011**
Hazod, W. (*with* Hofmann, Karl H.; Scheffler, Hans-Peter; Wüstner, Michael; Zeuner, Hansmartin) Normalizers of compact subgroups, the existence of commuting automorphisms, and applications to operator semistable measures. (English summary) **99j:22008**
Hofmann, Karl H. *see* **Hazod, W.; et al., 99j:22008**
Kobayashi, Hiroto (*with* Hatano, Naomichi; Suzuki, Masuo) Goldberg's theorem and the Baker-Campbell-Hausdorff formula. (English summary) **99d:22011**
Magyar, Z. On admissibility and temperedness of representations of real reductive groups. (English summary) **99d:22012**
— On the projection of $\overline{N}$ along the Iwasawa decomposition. (English summary) **99d:22013**
Matsuki, Toshihiko Double coset decompositions of reductive Lie groups arising from two involutions. **99a:22012**
Mittenhuber, Dirk Compression semigroups in semisimple Lie groups: a direct approach. **99j:22009**
Miyasaka, Takashi (*with* Yasukura, Osami; Yokota, Ichiro) Diagonalization of an element P of $\mathfrak{p}^C$ by the compact Lie group E_7. **99k:22013**
Moskowitz, Martin Correction and addenda to: "On the surjectivity of the exponential map for certain Lie groups" [Ann. Mat. Pura Appl. (4) **166** (1994), 129–143; MR 96b:22008]. **99d:22014**
Poguntke, Detlev Normalizers and centralizers of reductive subgroups of almost connected Lie groups. (English summary) **99g:22008**
San Martin, Luiz A. B. (*with* Tonelli, Pedro A.) Transitive actions of semigroups in semisimple Lie groups. (English summary) **99j:22010**
Scheffler, Hans-Peter *see* **Hazod, W.; et al., 99j:22008**
Suzuki, Masuo *see* **Kobayashi, Hiroto; et al., 99d:22011**
Tasaki, Hiroyuki The group of tangent vectors to a Lie group and the differential of its exponential mapping. **99h:22007**
Tonelli, Pedro A. *see* **San Martin, Luiz A. B., 99j:22010**
Weigert, Stefan Baker-Campbell-Hausdorff relation for special unitary groups $SU(N)$. (English summary) **99c:22011**
Wilkerson, C. W. *see* **Dwyer, William G., 99g:22007**
Wüstner, Michael *see* **Hazod, W.; et al., 99j:22008**
Yasukura, Osami *see* **Miyasaka, Takashi; et al., 99k:22013**
Yokota, Ichiro *see* **Miyasaka, Takashi; et al., 99k:22013**
Zeuner, Hansmartin *see* **Hazod, W.; et al., 99j:22008**

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Bökstedt, Marcel (*with* Brun, Morten; Dupont, Johan L.) Homology of $O(n)$ and $O^1(1, n)$ made discrete: an application of edgewise subdivision. (English summary) **99c:20061**
Borel, Armand Sous-groupes compacts maximaux des groupes de Lie. [Maximal compact subgroups of Lie groups] (*see* **99f:00033**)
Brun, Morten *see* **Bökstedt, Marcel; et al., 99c:20061**
Chloup-Arnould, V. Linearization of some Poisson-Lie tensor. (English summary) **99a:58062**
Chon, Inheung Some strictly infinitesimally generated semigroups. (English summary) **99k:22005**
Cohen de Lara, Michel Finite-dimensional filters. I. The Wei-Norman technique. (English summary) **99c:93100**
Dupont, Johan L. *see* **Bökstedt, Marcel; et al., 99c:20061**
Greenlees, J. P. C. Rational Mackey functors for compact Lie groups. I. **99f:55011**
Krötz, Bernhard (*with* Neeb, Karl-Hermann; Ólafsson, Gestur) Spherical representations and mixed symmetric spaces. (English summary) **99a:22031**
Lawson, Jimmie D. Universal objects in Lie semigroup theory. **99i:22007**
Munthe-Kaas, Hans *see* **Zanna, Antonella, 99k:34023**
Naber, Gregory L. ★ Topology, geometry, and gauge fields. (English summary) **99b:58001**
Neeb, Karl-Hermann *see* **Krötz, Bernhard; et al., 99a:22031**
Neretin, Yurii A. Hinges and the Study-Semple-Satake-Furstenberg-De Concini-Procesi-Oshima boundary. (English summary) **99g:32060**
Ólafsson, Gestur *see* **Krötz, Bernhard; et al., 99a:22031**
Shin, Joonkook Isometry groups of unimodular simply connected 3-dimensional Lie groups. (English summary) **99a:57031**
Tolar, J. (*with* Trávníček, P.) Graded contractions of $sp(3, \mathbf{R})$. (English summary) **99c:81062**
Trávníček, P. *see* **Tolar, J., 99c:81062**
Wüstner, Michael On the exponential function of real splittable and real semisimple Lie groups. (English summary) **99d:20076**
Zanna, Antonella (*with* Munthe-Kaas, Hans) Iterated commutators, Lie's reduction method and ordinary differential equations on matrix Lie groups. (English summary) **99k:34023**
Zeghib, Abdelghani On affine actions of Lie groups. **99c:53077**

22E20 General properties and structure of other Lie groups

Chen, Zhong Hu On the basic cases for split G_2. **99g:22009**
Matsuki, Toshihiko Classification and root systems of two involutions of Lie groups. (Japanese) (*see* **99a:17002**)
Wüstner, Michael Exponential Lie groups with disconnected near Cartan subgroups.

Items with secondary classifications in 22E20

Röhrle, Gerhard Maximal parabolic subgroups in classical groups are of modality zero. (English summary) **99b:20081**

22E25 Nilpotent and solvable Lie groups

Ali, Baklouti On the cortex of connected simply connected nilpotent Lie groups. (English summary) **99b:22013**
Barbano, Paolo Emilio Automorphisms and quasi-conformal mappings of Heisenberg-type groups. (English summary) **99k:22014**
Di Blasio, Bianca Positive definite spherical functions on harmonic space NA. (Italian summary) **99b:22014**
Leptin, Horst Irreduzible Darstellungen von Exponentialgruppen und Operatoren mit glatten Kernen. [Irreducible representations of exponential groups and operators with smooth kernels] **99i:22010**
Ludwig, Jean (*with* Molitor-Braun, Carine) Exponential actions, orbits and their kernels. (English summary) **99f:22010**
Molitor-Braun, Carine *see* **Ludwig, Jean, 99f:22010**
Wüstner, Michael On the surjectivity of the exponential function of solvable Lie groups. (English summary) **99h:22008**

Items with secondary classifications in 22E25

Ali, Baklouti Nouvelle désintégration lisse de $L^2(G)$ pour les groupes résolubles exponentiels. (French summary) [A new smooth decomposition of $L^2(G)$ for exponential solvable groups] **99f:22012**
Anker, Jean-Philippe (*with* Damek, Ewa; Yacoub, Chokri) Spherical analysis on harmonic AN groups. **99a:22014**
Beals, Richard William (*with* Greiner, Peter C.; Jiang, Yaping; Seco, Luis A.) A functional calculus on the Heisenberg group and the boundary layer potential $\Box_+^{-1}$ for the $\overline{\partial}$-Neumann problem. (English summary) **99f:22013**
Benson, Chal (*with* Jenkins, Joe; Ratcliff, Gail) The spherical transform of a Schwartz function on the Heisenberg group. (English summary) **99d:22016**
Biroli, Marco (*with* Mosco, Umberto; Tchou, N. A.) Homogenization by the Heisenberg group. (English summary) **99d:35020**
Damek, Ewa *see* **Anker, Jean-Philippe; et al., 99a:22014**
Danielli, Donatella (*with* Garofalo, Nicola) Geometric properties of solutions to subelliptic equations in nilpotent Lie groups. **99a:22015**
Dimou, G. New representation of a non-symmetric homogeneous domain in $\mathbf{C}^n$, $n = 8$.
Dotti Miatello, Isabel G. (*with* Lauret, Jorge) Curvature properties of solvable extensions of H-type groups. (English and Italian summaries) **99e:53067**
ter Elst, A. F. M. (*with* Robinson, Derek W.; Sikora, Adam) Heat kernels and Riesz transforms on nilpotent Lie groups. (English summary) **99a:35029**
Fujiwara, Hidenori Analyse harmonique pour certaines représentations induites d'un groupe de Lie nilpotent. [Harmonic analysis for certain induced representations of a nilpotent Lie group] **99f:22011**
Garofalo, Nicola *see* **Danielli, Donatella, 99a:22015**
Greiner, Peter C. *see* **Beals, Richard William; et al., 99f:22013**
Greshnov, A. V. Extension of differentiable functions beyond the boundary of the domain on Carnot groups [translation of *Proceedings of the Institute of Mathematics, 31* (Russian), 1–26, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1996]. (English summary) **99c:46027**
Hebisch, Waldemar On operators satisfying the Rockland condition. (English summary) **99e:22016**

Jenkins, Joe *see* **Benson, Chal; et al., 99d:22016**
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Lanconelli, E. (*with* Uguzzoni, Francesco) Asymptotic behavior and non-existence theorems for semilinear Dirichlet problems involving critical exponent on unbounded domains of the Heisenberg group. (Italian summary) **99d:35058**
Lauret, Jorge Commutative spaces which are not weakly symmetric. (English summary) **99a:22016**
— *see also* **Dotti Miatello, Isabel G., 99e:53067**
Liang, You Ming *see* **Ouyang, Cai Heng, 99m:35011**
Lipsman, Ronald L. A unified approach to concrete Plancherel theory of homogeneous spaces. (English summary) **99c:22013a**
— *see also* **Errata: "A unified approach to concrete Plancherel theory of homogeneous spaces", 99c:22013b**
Liu, He Ping (*with* Peng, Lizhong) Admissible wavelets associated with the Heisenberg group. (English summary) **99d:42065**
Lu, Guozhen Local and global interpolation inequalities on the Folland-Stein Sobolev spaces and polynomials on stratified groups. (English summary) **99i:46024**
Ludwig, Jean Hull-minimal ideals in the Schwartz algebra of the Heisenberg group. (English summary) **99e:46056**
Luo, Xue Bo (*with* Niu, Peng Cheng) The spectrum of the sub-Laplacian operator on a two-step nilpotent Lie group. (Chinese. English and Chinese summaries) **99e:22018**
Meigniez, Gaël Feuilletages de Lie résolubles. (English and French summaries) [Solvable Lie foliations] **99e:57042**
Meskhi, A. Two-weight inequalities for singular integrals on Heisenberg groups. (English summary)
Mint Elhacen, Salma (*with* Molitor-Braun, Carine) Étude de l'algèbre $L^1_\omega(G)$ avec G groupe de Lie nilpotent et ω poids polynomial. (English summary) [Study of the Lie algebra $L^1_\omega(G)$, with G a nilpotent Lie group and ω a polynomial weight] **99m:43001**
Molitor-Braun, Carine Exponential actions and maximal $\mathcal{D}$-invariant ideals. (English summary) **99h:43008**
— *see also* **Mint Elhacen, Salma, 99m:43001**
Mosco, Umberto *see* **Biroli, Marco; et al., 99d:35020**
Mustapha, Sami Multiplicateurs de Mikhlin pour une classe particulière de groupes non-unimodulaires. (English and French summaries) [Mikhlin multipliers for a particular class of nonunimodular groups] **99j:22013**
Niu, Peng Cheng *see* **Luo, Xue Bo, 99e:22018**
Ouyang, Cai Heng (*with* Liang, You Ming) A remark on the Folland-Stein theorem for the Heisenberg group. (Chinese. English and Chinese summaries) **99m:35011**
Peng, Lizhong *see* **Liu, He Ping, 99d:42065**
Ratcliff, Gail *see* **Benson, Chal; et al., 99d:22016**
Robinson, Derek W. *see* **ter Elst, A. F. M.; et al., 99a:35029**
Sachkov, Yu. L. Controllability of affine right-invariant systems on solvable Lie groups. (English summary) **99f:93015**
— Survey on controllability of invariant systems on solvable Lie groups. (English summary) **99m:93010**
Seco, Luis A. *see* **Beals, Richard William; et al., 99f:22013**
Sikora, Adam *see* **ter Elst, A. F. M.; et al., 99a:35029**
Tchou, N. A. Homogenization for the Heisenberg operator. (English summary) **99d:35019**
— *see also* **Biroli, Marco; et al., 99d:35020**
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"A unified approach to concrete Plancherel theory of homogeneous spaces" Errata: "A unified approach to concrete Plancherel theory of homogeneous spaces" [Manuscripta Math. **94** (1997), no. 2, 133–149; MR 99c:22013a] by R. L. Lipsman. **99c:22013b**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Andler, Martin (*with* Manchon, Dominique) Opérateurs aux différences finies, calcul pseudo-différentiel et représentations des groupes de Lie. (English summary) [Finite difference operators, pseudodifferential calculus and representations of Lie groups] **99i:22011**
Fujiwara, Hidenori Analyse harmonique pour certaines représentations induites d'un groupe de Lie nilpotent. [Harmonic analysis for certain induced representations of a nilpotent Lie group] **99f:22011**
Guichardet, Alain Représentations des groups de Lie nilpotents (d'après Kirillov). [Nilpotent Lie group representations (after Kirillov)] (*see* **99f:00040**)
Kumahara, Keisaku On non-unitary induced representations of a generalized Heisenberg group. (English summary) **99a:22013**
Manchon, Dominique *see* **Andler, Martin, 99i:22011**
Molitor-Braun, Carine Actions exponentielles et noyaux d'opérateurs. (English summary) [Exponential actions and kernels of operators] **99e:22014**
Vijayan, Colathur R. Representation equivalence in the three-step chain group. (English summary) **99b:22015**

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Cartier, Pierre Théorie des groupes, fonctions théta et modules des variétés abéliennes. [Group theory, theta functions and moduli of abelian varieties] (*see* **99f:00042**)
Mnatsakanova, M. N. (*with* Morchio, Gianni; Strocchi, Franco; Vernov, Yu. S.) Irreducible representations of the Heisenberg algebra in Krein spaces. (English summary) **99j:81080**
Morchio, Gianni *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Strocchi, Franco *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Sudo, Takahiro (*with* Takai, Hiroshi) Stable rank of the C^*-algebras of solvable Lie groups of type I. (English summary) **99a:46125**
Takai, Hiroshi *see* **Sudo, Takahiro, 99a:46125**
Vernov, Yu. S. *see* **Mnatsakanova, M. N.; et al., 99j:81080**

22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

Ali, Baklouti Nouvelle désintégration lisse de $L^2(G)$ pour les groupes résolubles exponentiels. (French summary) [A new smooth decomposition of $L^2(G)$ for exponential solvable groups] **99f:22012**
Andersen, Nils Byrial Solutions élémentaires invariantes pour les opérateurs différentiels invariants sur les espaces symétriques réductifs de type $G_{\mathbf{C}}/G_{\mathbf{R}}$. (English and French summaries) [Invariant fundamental solutions for invariant differential operators on reductive symmetric spaces of type $G_{\mathbf{C}}/G_{\mathbf{R}}$] **99i:22012**
Anker, Jean-Philippe (*with* Damek, Ewa; Yacoub, Chokri) Spherical analysis on harmonic AN groups. **99a:22014**
Artemov, A. A. Asymptotic behavior of the Poisson transform on a hyperboloid of one sheet. (English summary) **99g:22010**
van den Ban, E. P. The action of intertwining operators on spherical vectors in the minimal principal series of a reductive symmetric space. (English summary) **99d:22015**
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— (*with* Ratcliff, Gail) Combinatorics and spherical functions on the Heisenberg group. (English summary) **99f:22014**
Bertram, Wolfgang Ramanujan's master theorem and duality of symmetric spaces. (English summary) **99d:22017**
Carmona, Jacques Terme constant des fonctions tempérées sur un espace symétrique réductif. (English summary) [Constant term of tempered functions on a reductive symmetric space] **99b:22016**
— Erratum to the paper: "Constant term of tempered functions on a reductive symmetric space" [J. Reine Angew. Math. **491** (1997), 17–63; MR 99b:22016]. (French) **99j:22011**
Cherednik, Ivan Inverse Harish-Chandra transform and difference operators. **99d:22018**
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22E40 Discrete subgroups of Lie groups [see also 20Hxx, 32Nxx]

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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

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22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B35]

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22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

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Ye, Yangbo A Kloosterman sum in a relative trace formula for GL_4. (English summary) **99j:11092**

22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

Cartier, Pierre Vecteurs analytiques (d'après E. Nelson). [Analytic vectors (after E. Nelson)] (*see* **99f:00037**)
Gan, Wee Teck A note on Kottwitz's invariant $e(G)$. (English summary) **99j:22027**
Ndogmo, Jean-Claude Invariants of solvable Lie algebras of dimension $k \leq 2$ modulo the nilradical. (English summary) **99e:22034**
Ongay-Larios, Fausto On the Heisenberg group. (Spanish. Spanish summary) **99f:22033**

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Ayala, Victor (*with* Tirao, Juan) Linear control systems on Lie groups and controllability. (English summary) **99j:93005**
Baguis, P. Semidirect products and the Pukanszky condition. (English summary) **99i:58056**
Dixmier, Jacques Quelques résultats d'Harish-Chandra. II. [Some results of Harish-Chandra. II] (*see* **99f:00034**)
Donin, J. Double quantization on the coadjoint representation of sl(n). (English summary) **99h:17019**
Fu, Hong-Chen (*with* Sasaki, Ryu) Probability distributions and coherent states of B_r, C_r and D_r algebras. (English summary) **99f:81085**
Godement, Roger Quelques résultats nouveaux de Kostant sur les groupes semi-simples. [Some new results of Kostant on semisimple groups] (*see* **99f:00040**)
Guichardet, Alain Représentations des groups de Lie nilpotents (d'après Kirillov). [Nilpotent Lie group representations (after Kirillov)] (*see* **99f:00040**)
Hilgert, Joachim (*with* Neeb, Karl-Hermann) Poisson Lie groups and non-linear convexity theorems. (English summary) **99d:58063**
— (*with* Neeb, Karl-Hermann) Poisson Lie groups and non-linear convexity theorems. (English summary) **99k:58070**
Kamoun, Nouri Fonctions indéfiniment différentiables invariantes sur l'espace tangent d'un espace symétrique. (English and French summaries) [Infinitely differentiable invariant functions on the tangent space of a symmetric space] **99k:43012**
Karolinskiĭ, E. A. Symplectic leaves on Poisson homogeneous spaces of Poisson-Lie groups. (Russian. English, Russian and Ukrainian summaries) **99a:58067**
Kostant, Bertram The set of abelian ideals of a Borel subalgebra, Cartan decompositions, and discrete series representations. **99c:17010**
Lagno, Viktor Ivanovich On new Galilei-invariant equations in two-dimensional spacetime. (English summary) **99j:58228**
Ludwig, Jean (*with* Molitor-Braun, Carine) Exponential actions, orbits and their kernels. (English summary) **99f:22010**
Melnikov, Anna Dense orbits in orbital varieties in $\mathfrak{sl}_n$. (English and French summaries) **99f:20074**
— Orbital varieties in $\mathfrak{sl}_n$ and the Smith conjecture. (English summary) **99f:20075**
Molitor-Braun, Carine Actions exponentielles et noyaux d'opérateurs. (English summary) [Exponential actions and kernels of operators] **99e:22014**
— *see also* **Ludwig, Jean, 99f:22010**
Moskowitz, Martin Correction and addenda to: "On the surjectivity of the exponential map for certain Lie groups" [Ann. Mat. Pura Appl. (4) **166** (1994), 129–143; MR 96b:22008]. **99d:22014**
Neeb, Karl-Hermann *see* **Hilgert, Joachim, 99d:58063** *and* **99k:58070**
Sasaki, Ryu *see* **Fu, Hong-Chen, 99f:81085**
Shipman, Barbara A. On the geometry of certain isospectral sets in the full Kostant-Toda lattice. (English summary) **99i:58084**
Thomova, Z. (*with* Winternitz, Pavel) Maximal abelian subgroups of the isometry and conformal groups of Euclidean and Minkowski spaces. (English and French summaries) **99k:81087**
Tirao, Juan *see* **Ayala, Victor, 99j:93005**
Wada, Ryoko The integral representations of harmonic polynomials in the case of su(p, 1). **99e:22019**
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Yokota, Ichiro 2-graded decompositions of exceptional Lie algebras $\mathfrak{g}$ and group realizations of $\mathfrak{g}_{ev}$, $\mathfrak{g}_0$. I. $G = G_2, F_4, E_6$. **99k:17049**

22E65 Infinite-dimensional Lie groups and their Lie algebras [see also 17B65, 58B25, 58H05]

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Losev, Andrei (*with* Moore, Gregory W.; Nekrasov, Nikita; Shatashvili, Samson L.) Central extensions of gauge groups revisited. (English summary) **99k:22031**
Moore, Gregory W. *see* **Losev, Andrei; et al., 99k:22031**
Neeb, Karl-Hermann (*with* Ørsted, Bent) Unitary highest weight representations in Hilbert spaces of holomorphic functions on infinite-dimensional domains. (English summary) **99m:22022**
— Holomorphic highest weight representations of infinite-dimensional complex classical groups. **99h:22027**
Nekrasov, Nikita *see* **Losev, Andrei; et al., 99k:22031**
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Arnaudon, Marc (*with* Paycha, Sylvie) Regularisable and minimal orbits for group actions in infinite dimensions. (English summary) **99b:58040**
Bao, David (*with* Ratiu, Tudor S.) On a maximal torus in the volume-preserving diffeomorphism group of the finite cylinder. (English summary) **99a:58009**
Bruhat, François Travaux de Sternberg. [Works of Sternberg] (*see* **99f:00038**)
Coşkun, Erdal Differentiable functions on abelian Hilbert-Lie groups. (English summary) **99m:60014**
— Convolution semigroup of probability measures on abelian Hilbert-Lie groups. **99i:60012**
Danilenko, A. I. Gårding domains for unitary representations of countable inductive limits of locally compact groups. (English, Russian and Ukrainian summaries) **99c:22004**
Dazord, Pierre Sur l'intégration des algèbres de Lie locales et la préquantification. (English summary) [Integration of local Lie algebras and prequantization] **99g:58057**
Enriquez, Benjamin (*with* Rubtsov, Vladimir) Quantum groups in higher genus and Drinfeld's new realizations method ($\mathfrak{sl}_2$ case). (English and French summaries) **99b:17011**
Gao, Ya-Jun (*with* Zhong, Zai-Zhe; Gui, Yuan-Xing) Extended double Riemann-Hilbert problem and multiple representations of the infinite-dimensional symmetric group for the stationary axisymmetric vacuum field equations. (English summary) **99f:83016**
Goldin, Gerald A. Unitary representations of diffeomorphism groups from random fractal configurations. (English summary) **99e:81077**
Gui, Yuan-Xing *see* **Gao, Ya-Jun; et al., 99f:83016**
Hall, Brian C. (*with* Sengupta, Ambar N.) The Segal-Bargmann transform for path-groups. (English summary) **99a:58020**
Hashimoto, Takashi Integrability of one-parameter groups generated by the Virasoro operators. (English summary) **99b:81076**
Helminck, G. F. (*with* van den Heuvel, P. C. J.) A multipoint version of the KP-hierarchy. (English summary) **99k:58091**
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Hirai, Takeshi *see* **Shimomura, Hiroaki, 99h:58010**
Huang, Lin Wen (*with* Zha, Jian Guo) Infinite-dimensional algebraic subgroups of Kac-Moody groups. (Chinese. English and Chinese summaries) **99f:17027**
Illusie, Luc Contractibilité du groupe linéaire des espaces de Hilbert de dimension infinie (d'après N. Kuiper). [Contractibility of the linear group of infinite-dimensional Hilbert spaces (after N. Kuiper)] (*see* **99f:00041**)
Isidro, José María[1] Behaviour of holomorphic automorphisms on equicontinuous subsets of the space $\mathscr{E}(\Omega, E)$. (English summary) **99c:46034**
Kamran, Niky (*with* Robart, Thierry) A compatible analytic manifold structure for Lie pseudogroups of infinite type. (English summary) **99g:58133**
Kashiwara, Masaki (*with* Tanisaki, Toshiyuki) On Kazhdan-Lusztig conjectures [translation of Sūgaku **47** (1995), no. 3, 269–285; MR 97k:17039]. (*see* **99h:00040**)
Matsushima, Yozô Pseudo-groupes de Lie transitifs. [Transitive Lie pseudogroups] (*see* **99f:00035**)
Mickelsson, Jouko Schwinger terms, gerbes, and operator residues. **99e:58204**
Misiołek, Gerard Exponential maps of Sobolev metrics on loop groups. (English summary) **99j:58015**
Miyazaki, Naoya A remark on the Maslov form on the group generated by invertible Fourier integral operators. (English summary) **99c:58152**
— On a certain class of oscillatory integral transformations which determine canonical graphs. **99f:58200**
Morris, Sidney A. (*with* Pestov, Vladimir G.) On Lie groups in varieties of topological groups. **99i:22001**
Neretin, Yurii A. On the correspondence between the boson Fock space and the space L^2 with respect to Poisson measure. (Russian. Russian summary) **99j:28012**
Okun'kov, Andreĭ Log-concavity of multiplicities with application to characters of U(∞). (English summary) **99a:22028**
Ōmori, Hideki Berezin representation of a quantized version of the group of volume-preserving transformations. (Japanese) **99i:58017**
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— On the group of diffeomorphisms preserving a submanifold. **99c:58021**
— On the group of Poisson diffeomorphisms of the torus. (English and Italian summaries) **99i:58021**
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Shimomura, Hiroaki (*with* Hirai, Takeshi) On group topologies on the group of diffeomorphisms. **99h:58010**
— 1-cocycles on infinite-dimensional spaces. **99k:58013**
Smolyanov, Oleg G. Differentiable measures on current groups. (Russian) **99e:58028**
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Xu, Ping[1] Flux homomorphism on symplectic groupoids. **99a:58081**
Zajtz, Andrzej Equivalence problem via the Nash-Moser theorem. (English summary) **99m:58017**
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22E67 Loop groups and related constructions, group-theoretic treatment [see also 58D05]

Gibilisco, Paolo Bundle-connection pairs and representations of the loop group. (Russian. Russian summary) **99e:22036**

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Brylinski, Jean-Luc (*with* McLaughlin, D. A.) The converse of the Segal-Witten reciprocity law. **99c:58026**
Davidov, Ĭ. (*with* Sergeev, A. G.) Twistor quantization of loop spaces. (Russian. Russian summary) **99f:58084**
Dorfmeister, J. (*with* Gradl, H.; Szmigielski, Jacek) Systems of PDEs obtained from factorization in loop groups. (English summary) **99k:58088**
Driver, Bruce K. Integration by parts and quasi-invariance for heat kernel measures on loop groups. (English summary) **99a:60054a**
— A correction to the paper: "Integration by parts and quasi-invariance for heat kernel measures on loop groups". (English summary) **99a:60054b**
Eells, James Automorphisms of the circle—and Teichmüller theory. (English summary) **99g:32035**
Gao, Ya-Jun (*with* Zhong, Zai-Zhe; Gui, Yuan-Xing) Extended double Riemann-Hilbert problem and multiple representations of the infinite-dimensional symmetric group for the stationary axisymmetric vacuum field equations. (English summary) **99f:83016**
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Guest, Martin A. ★ Harmonic maps, loop groups, and integrable systems. (English summary) **99g:58036**
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Hamanaka, Hiroaki Adjoint actions on homology mod 2 of exceptional Lie groups. **99a:57033**
— (*with* Hara, Shin-Ichiro; Kono, Akira[1]) Adjoint action of Lie groups on the loop spaces and cohomology of exceptional Lie groups. **99a:57034**
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Kono, Akira[1] *see* **Hamanaka, Hiroaki**; **et al.**, **99a:57034**
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McLaughlin, D. A. *see* **Brylinski, Jean-Luc**, **99c:58026**
Mukhopadhyay, Indranil[2] (*with* Roy Chowdhury, Asesh) Classical r-matrices and the four-wave interaction equation. (English summary) **99f:58103**
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Wilson, George Bispectral algebras of ordinary differential operators. **99f:58108**
— Collisions of Calogero-Moser particles and an adelic Grassmannian. **99f:58107**
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Man'ko, V. I. (*with* Wolf, Kurt Bernardo) Symplectic and Euclidean groups of transformations in optics. (English summary) **99e:22037**
Mărgulescu, George Some representations of affine conformal transformations of Minkowski space. (English summary) **99k:22032**
Sartori, G. (*with* Talamini, V.) Orbit spaces of compact coregular simple Lie groups with 2, 3 and 4 basic polynomial invariants: effective tools in the analysis of invariant potentials. (English summary) **99g:22021**
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Zhdanov, Renat (*with* Fushchich, Vīl'gel'm Īlīch) On new representations of Galilei groups. (English summary) **99b:22030**

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Alekseevskiĭ, D. V. (*with* Grabowski, Janusz; Marmo, Giuseppe; Michor, Peter W.) Completely integrable systems—a generalization. (English summary) **99f:58089**
Ali, S. Twareque A general theorem on square-integrability: vector coherent states. (English summary) **99h:22015**
Araki, Huzihiro (*with* Flato, Moshé; Michéa, Sébastien; Sternheimer, Daniel) Some infinite-dimensional algebras arising in spin systems and in particle physics and their grand algebra. (English summary) **99h:81067**
Bacry, Henri The Poincaré group and the notion of elementary particle. (English summary) **99c:81056**
Berceanu, Stefan A remark on Berezin's quantization and cut locus. (English summary) **99m:58102**
Biedenharn, L. C. (*with* Chen, William Y. C.; Lohe, M. A.; Louck, James D.) The role of SU(2) $3n$-j coefficients in SU(3). (English summary) **99a:81052**
Chen, William Y. C. *see* **Biedenharn, L. C.**; **et al.**, **99a:81052**
Dixmier, Jacques Quelques résultats d'Harish-Chandra. I. [Some results of Harish-Chandra. I] (*see* **99f:00034**)
Draayer, J. P. *see* **Pan, Feng**, **99k:81081** *and* **99k:81082**
Egorchenko, I. A. Differential invariants for a nonlinear representation of the Poincaré algebra. Invariant equations. (English summary) (*see* **99b:00027**)
Enright, Thomas J. (*with* Wallach, Nolan R.) Embeddings of unitary highest weight representations and generalized Dirac operators. **99k:22019**
Fedorchuk, V. M. Subgroup structure of the Poincaré group $P(1,4)$ and symmetry reduction of five-dimensional equations of mathematical physics. (English summary) **99c:81058**
Feinsilver, Philip (*with* Schott, René) Computing representations of a Lie group via the universal enveloping algebra. (English summary) **99i:22014**
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Forger, Michael Invariant polynomials and Molien functions. (English summary) **99g:13005**
Frydryszak, Andrzej The graded Heisenberg group and its Q-representations (the odd part). (English summary) **99f:81071**
Fushchich, Vīl'gel'm Īlīch (*with* Symenoh, Z. I.) Symmetry of equations with convection terms. (English summary) **99i:35062**
Gnutzmann, Sven (*with* Kuś, Marek) Coherent states and the classical limit on irreducible SU_3 representations. (English summary) **99m:81091**
Grabowski, Janusz *see* **Alekseevskiĭ, D. V.**; **et al.**, **99f:58089**
Grimm, Stefan (*with* de Montigny, M.; Patera, Jiří) The signatures of finite-dimensional representations of the de Sitter groups SO(4, 1) and SO(3, 2). (English summary) **99a:22022**
Guido, Daniele (*with* Longo, Roberto; Wiesbrock, Hans-Werner) Extensions of conformal nets and superselection structures. (English summary) **99b:81136**
Hall, G. S. Some remarks on symmetries and transformation groups in general relativity. (English summary) **99e:83013**
Hamilton, Jeffrey John Hypercomplex numbers and the description of spin states. (English summary) **99c:81059**
Herranz, Francisco J. *see* **Santander, Mariano**, **99k:81085**
Kuriyama, Atsushi (*with* da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) Modification of the conventional Holstein-Primakoff boson representation for the su(1, 1)-algebra and its classical counterpart. (English summary) **99m:81075**
Kuś, Marek *see* **Gnutzmann, Sven**, **99m:81091**
Lahno, Halyna Representations of subalgebras of a subdirect sum of the extended Euclid algebras and invariant equations. (English summary) (*see* **99b:00027**)
Lee, Kimyeong Instantons and magnetic monopoles on $\mathbf{R}^3 \times S^1$ with arbitrary simple gauge groups. (English summary) **99m:81144**
Lendi, K. *see* **van Wonderen, A. J.**, **99g:81065**
Lévay, Péter Optical potentials in algebraic scattering theory. (English summary) **99m:81076**
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Lorch, John D. An orthogonal family of polynomials on the generalized unit disk and ladder representations of U(p, q). (English summary) **99b:22023**
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Man'ko, V. I. Dynamical symmetries and tomography. (English summary) **99k:81162**
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Michéa, Sébastien *see* **Araki, Huzihiro**; **et al.**, **99h:81067**
Michor, Peter W. *see* **Alekseevskiĭ, D. V.**; **et al.**, **99f:58089**
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Moylan, Patrick Joseph Embedding Euclidean Lie algebras into quantum structures. **99c:81094**
Negro, Javier (*with* del Olmo, Mariano A.; Rodríguez-Marco, A.) Nonrelativistic conformal groups. (English summary) **99a:81056**
— (*with* del Olmo, Mariano A.; Rodríguez-Marco, A.) Nonrelativistic conformal groups. II. Further developments and physical applications. (English summary) **99a:81057**
Niederle, Jiří (*with* Nikitin, Anatolii) Non-Lie and discrete symmetries of the Dirac equation. (English summary) **99a:81058**
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Ongay-Larios, Fausto On the Heisenberg group. (Spanish. Spanish summary) **99f:22033**
Osipov, V. F. ★ Структура пространства-времени: векторная алгебра и анализ. Часть 1. (Russian. Russian summary) [Space-time structure: vector algebra and analysis. Part 1] **99e:53015**
Pan, Feng (*with* Draayer, J. P.) Complementary group resolution of the SU(n) outer multiplicity problem. I. The Littlewood rules and a complementary $\mathcal{U}(2n-2)$ group structure. (English summary) **99k:81081**
— (*with* Draayer, J. P.) Complementary group resolution of the SU(n) outer multiplicity problem. II. Recoupling approach for SU(3) $\supset$ U(2) reduced Wigner coefficients. (English summary) **99k:81082**
Patera, Jiří *see* **Grimm, Stefan**; **et al.**, **99a:22022**
Perelomov, A. M. Quantum integrable systems and Clebsch-Gordan series. I. (English summary) **99b:81292**
Pletyukhov, M. V. (*with* Tolkachev, E. A.) 8D oscillator and 5D Kepler problem: the case of nontrivial constraints. (English summary) **99m:81048**
da Providência, João *see* **Kuriyama, Atsushi**; **et al.**, **99m:81075**
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Rosengren, Hjalmar On the triple sum formula for Wigner 9j-symbols. (English summary) **99k:81084**
Ruan, Dong *see* **Sun, Hong-zhou**, **99f:81073**
Rudra, P. Contact symmetry of time-dependent Schrödinger equation for a two-particle system: symmetry classification of two-body central potentials. (English summary) **99m:81080**
Santander, Mariano (*with* Herranz, Francisco J.) Geometries of orthogonal groups and their contractions: a unified classical deformation viewpoint. (English summary) **99k:81085**
Schempp, Walter Johannes Wavelet modelling of clinical magnetic resonance tomography: an ensemble quantum computing approach. (English summary) (*see* **99a:00030**)
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Segal, Irving (*with* Vogan, David A., Jr.; Zhou, Zhengfang) Spinor currents as vector particles. (English summary) **99h:81066**
Serban, Didina Some properties of the Calogero-Sutherland model with reflections. (English summary) **99g:81246**
Sezgin, M. (*with* Verdiyev, A. Y.; Verdiev, İ. A.) Generalized Pöschl-Teller, Toda, Morse potentials and SL(2, **R**) group. (English summary) **99g:81064**
Šijački, Djordje World spinors revisited. (English summary) **99k:83093**
Sternheimer, Daniel *see* **Araki, Huzihiro; et al.**, **99h:81067**
Sun, Hong-zhou (*with* Ruan, Dong) Algebraic expressions for $O(N) \supset O(N-1)$ reduction factors for the three-rowed irreducible representations. (English summary) **99f:81073**
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Thiemann, T. Closed formula for the matrix elements of the volume operator in canonical quantum gravity. (English summary) **99c:83034a**
— A length operator for canonical quantum gravity. (English summary) **99c:83034b**
Thomova, Z. (*with* Winternitz, Pavel) Maximal abelian subgroups of the isometry and conformal groups of Euclidean and Minkowski spaces. (English and French summaries) **99k:81087**
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Tsue, Yasuhiko *see* **Kuriyama, Atsushi; et al.**, **99m:81075**
Varchenko, A. N. ★ Multidimensional hypergeometric functions and representation theory of Lie algebras and quantum groups. **99i:32029**
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Weigert, Stefan Baker-Campbell-Hausdorff relation for special unitary groups SU(N). (English summary) **99c:22011**
Wiesbrock, Hans-Werner *see* **Guido, Daniele; et al.**, **99b:81136**
Winternitz, Pavel *see* **Thomova, Z.**, **99k:81087**
van Wonderen, A. J. (*with* Lendi, K.) Note on the representation of angular momentum by complex differential forms. (English summary) **99g:81065**
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22E99 None of the above, but in this section

Ageev, S. M. (*with* Bogatyĭ, Semen A.; Repovš, Dušan D.; Fabel, Paul) Extensors of noncompact Lie groups. (Russian)
Bogatyĭ, Semen A. *see* **Ageev, S. M.; et al.**
Chon, Inheung Infinitesimally generated stochastic totally positive matrices. (English summary)
Fabel, Paul *see* **Ageev, S. M.; et al.**
Faĭziev, V. A. Two-dimensional real triangular quasirepresentations of a free group. (Russian) **99d:22029**
Repovš, Dušan D. *see* **Ageev, S. M.; et al.**

Items with secondary classifications in 22E99

Adler, Stephen L. (*with* Emch, Gérard G.) A rejoinder on quaternionic projective representations. (English summary) **99c:81055**
Bârză, Ilie (*with* Ghişa, D.) Lie groups acting on the Möbius strip. (English summary) **99f:30068**
Cathelineau, Jean-Louis Homology of tangent groups considered as discrete groups and scissors congruence. (English summary) **99h:57066**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Weighted subcoercive operators on Lie groups. (English summary) **99h:47055**
Emch, Gérard G. *see* **Adler, Stephen L.**, **99c:81055**
(Farre, George L.) *see* **Schempp, Walter Johannes**, **99h:78022**
Ghişa, D. *see* **Bârză, Ilie**, **99f:30068**
Hel-Or, Yacov (*with* Teo, Patrick C.) Canonical decomposition of steerable functions. (English summary) **99c:68257**
Le Dimet, Jean-Yves Représentations du groupe des tresses généralisées dans des groupes de Lie. (English summary) [Representations of the generalized braid group in Lie groups] **99k:57019**
Munthe-Kaas, Hans (*with* Zanna, Antonella) Numerical integration of differential equations on homogeneous manifolds. (English summary) **99i:65082**
Priwitzer, Barbara (*with* Salzmann, Helmut R.) Large automorphism groups of 16-dimensional planes are Lie groups. (English summary) **99f:51027**
Robinson, Derek W. *see* **ter Elst, A. F. M.**, **99h:47055**
Rudkovskiĭ, M. A. Twisted product of Lie groups. (Russian. Russian summary) **99b:20051**
Salzmann, Helmut R. *see* **Priwitzer, Barbara**, **99f:51027**
Schempp, Walter Johannes ★ Magnetic resonance imaging. (English summary) **99h:78022**
Stachura, Piotr Poisson-Lie structures on Poincaré and Euclidean groups in three dimensions. (English summary) **99f:58082**
Teo, Patrick C. *see* **Hel-Or, Yacov**, **99c:68257**
Zanna, Antonella *see* **Munthe-Kaas, Hans**, **99i:65082**

26–XX Real functions [see also 54C30]

26–01 Instructional exposition (textbooks, tutorial papers, etc.)

Abian, Alexander How to remember and use Stokes theorem easily.
Borden, Robert S. ★ A course in advanced calculus. (English summary)
Coombes, Kevin R. (*with* Lipsman, Ronald L.; Rosenberg, Jonathan M.) ★ Multivariable calculus and Mathematica. (English summary) **99b:26001**
Korczak, Wiesława (*with* Trajdos, Marianna) ★ Wektory, pochodne, całki. (Polish. Polish summary) [Vectors, derivatives, integrals]
Kungurtseva, A. V. *see* **Ushakov, V. I.; et al.**
Kuznetsov, G. A. *see* **Ushakov, V. I.; et al.**
Laskowska, Anna *see* **Odyniec, Włodzimierz; et al.**
Lipsman, Ronald L. *see* **Coombes, Kevin R.; et al., 99b:26001**
Odyniec, Włodzimierz (*with* Powołocki, Abram; Laskowska, Anna) ★ Konstruowanie funkcji elementarnych. (Polish. Polish summary) [Construction of elementary functions]
Powołocki, Abram *see* **Odyniec, Włodzimierz; et al.**
Protter, Murray H. ★ Basic elements of real analysis. **99f:26001**
Reiffen, Hans-Jörg (*with* Trapp, Heinz W.) ★ Einführung in die Analysis. (German. German summary) [Introduction to analysis]
Rosenberg, Jonathan M. *see* **Coombes, Kevin R.; et al., 99b:26001**
Sáenz Cetina, José Leonardo Asymptotes. (Spanish)
Scheid, Harald ★ Folgen und Funktionen. (German. German summary) [Sequences and functions] **99h:26001**
Trajdos, Marianna *see* **Korczak, Wiesława**
Trapp, Heinz W. *see* **Reiffen, Hans-Jörg**
Ushakov, V. I. (*with* Kungurtseva, A. V.; Kuznetsov, G. A.) ★ Функции многих переменных. (Russian. Russian summary) [Functions of several variables]

Items with secondary classifications in 26–01

Aliprantis, Charalambos D. (*with* Burkinshaw, Owen) ★ Problems in real analysis. (English summary) **99g:28001**
Amann, Herbert (*with* Escher, Joachim) ★ Analysis. I. (German. German summary) **99k:00001**
(Azad, Hassan) *see* **Jost, Jürgen, 99f:00002**
Berberian, Sterling K. ★ Fundamentals of real analysis. (English summary) **99i:28001**
Burkinshaw, Owen *see* **Aliprantis, Charalambos D., 99g:28001**
Chekhlov, V. I. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
Cobzaş, Ştefan ★ Analiză matematică (calculul diferenţial). (Romanian) [Mathematical analysis (differential calculus)] **99h:00003**
Constantinescu, Corneliu (*with* Filter, Wolfgang; Weber, Karl) ★ Advanced integration theory. (English summary) **99m:28001**
Escher, Joachim *see* **Amann, Herbert, 99k:00001**
Filter, Wolfgang *see* **Constantinescu, Corneliu; et al., 99m:28001**
Gloor, Oliver *see* **Wolff, Manfred P. H.; et al.**
Hubbard, Barbara Burke *see* **Hubbard, John Hamal, 99k:00002**
Hubbard, John Hamal (*with* Hubbard, Barbara Burke) ★ Vector calculus, linear algebra, and differential forms. **99k:00002**
Jost, Jürgen ★ Postmodern analysis. (English summary) **99f:00002**
Kapur, J. N. ★ Inequalities: theory applications and measurements. (English summary) **99f:26031**
Kudryavtsev, L. D. (*with* Kutasov, A. D.; Chekhlov, V. I.; Shabunin, M. I.) ★ Сборник задач по математическому анализу. (Russian. Russian summary) [A collection of problems in mathematical analysis] **99h:00004**
Kutasov, A. D. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
Maor, Eli ★ Trigonometric delights. (English summary) **99c:01001**
(Pierzchalski, Antoni) *see* **Rudin, Walter, 99g:00008**
Rana, Inder K. ★ From numbers to analysis. **99k:00004**
Richard, Christoph *see* **Wolff, Manfred P. H.; et al.**
Rudin, Walter ★ Analiza rzeczywista i zespolona. (Polish. Polish summary) [Real and complex analysis] **99g:00008**
Shabunin, M. I. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
(Sontag, Alexia) *see* **Constantinescu, Corneliu; et al., 99m:28001**
Stroock, Daniel W. ★ A concise introduction to the theory of integration. (English summary) **99i:28003**
Wagschal, Claude ★ Calcul différentiel. (French. French summary) [Differential calculus]
(Walczak, Paweł) *see* **Rudin, Walter, 99g:00008**
Weber, Karl *see* **Constantinescu, Corneliu; et al., 99m:28001**
Wolff, Manfred P. H. (*with* Gloor, Oliver; Richard, Christoph) ★ Analysis alive. (German. German summary)
Zaidman, Samuel ★ Advanced calculus. (English summary) **99c:00002**

Items listed otherwise than by author

Problems:
Differential calculus *see* **Wagschal, Claude**
Mathematical analysis *see* **Kudryavtsev, L. D.; et al., 99h:00004**

26–02 Research exposition (monographs, survey articles)

Goffman, Casper (*with* Nishiura, Togo; Waterman, Daniel) ★ Homeomorphisms in analysis. (English summary) **99b:26002**
Nishiura, Togo *see* **Goffman, Casper; et al., 99b:26002**
Waterman, Daniel *see* **Goffman, Casper; et al., 99b:26002**

Items with secondary classifications in 26–02

(Binderman, Zbigniew) *see* **Przeworska-Rolewicz, Danuta, 99j:47002**
Przeworska-Rolewicz, Danuta ★ Logarithms and antilogarithms. (English summary) **99j:47002**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Grozdev, S. On the appearance of the fractional calculus. (English and Russian summaries) **99j:26001**

Items with secondary classifications in 26–03

Dugowson, Stéphane L'élaboration par Riemann d'une définition de la dérivation d'ordre non entier. (English and French summaries) [Riemann's work on defining the concept of fractional calculus] **99b:01011**
Galperin, Efim A. Some old traditions in mathematics and in mathematical education. (English summary) **99m:01107**
Gindikin, S. G. The century of the cycloid.
(Hermann, Jakob) *see* **Mazzone, Silvia, 99f:01010**
Lubet, Jean-Pierre De Lambert à Cauchy: la résolution des équations littérales par le moyen des séries. (English and French summaries) [From Lambert to Cauchy: solving equations by means of series] **99m:01016**
Marcus, Solomon Stoilow's work in real analysis: its significance and its impact. (*see* **99h:00035**)
Mazzone, Silvia (*with* Roero, Clara Silvia) ★ Jacob Hermann and the diffusion of the Leibnizian calculus in Italy. **99f:01010**
McKinzie, Mark (*with* Tuckey, Curtis) Hidden lemmas in Euler's summation of the reciprocals of the squares. **99c:11003**
Moreno Armella, Luis Weierstrass a hundred years later. (Spanish) **99m:01034**
(Riemann, Georg Friedrich Bernhard) *see* **Dugowson, Stéphane, 99b:01011**
Roero, Clara Silvia *see* **Mazzone, Silvia, 99f:01010**
(Stoilow, Simion) *see* **Marcus, Solomon, (99h:00035)**
Tatarkiewicz, Krzysztof Hilbert's Thirteenth Problem. (Polish. English summary) **99h:01032**
Tuckey, Curtis *see* **McKinzie, Mark, 99c:11003**
(Weierstrass, Karl Theodor Wilhelm) *see* **Moreno Armella, Luis, 99m:01034**

Items listed otherwise than by author

Biography:
Hermann, Jakob *see* **Mazzone, Silvia, 99f:01010**
Correspondence:
Hermann, Jakob *see* **Mazzone, Silvia, 99f:01010**

26–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 26–06

(Borsík, Ján) *see* **Real functions, 99f:00022**
(Dimovski, I. H.) *see* **Transform methods & special functions, 99i:00031**
(Frič, Roman) *see* **Real functions, 99f:00022**
(Haluška, Ján) *see* **Real functions, 99f:00022**
(Kiryakova, Virginia S.) *see* **Transform methods & special functions, 99i:00031**
(Obreschkoff, Nikola) *see* **Transform methods & special functions, 99i:00031**
(Rusev, Pet″r K.) *see* **Transform methods & special functions, 99i:00031**
(Šalát, Tibor) *see* **Real functions, 99f:00022**

Items listed otherwise than by author

Anniversary:
Birth of Obreschkoff, Nikola ★ Transform methods & special functions, Varna '96. **99i:00031**
Birthday:
Šalát, Tibor ★ Real functions. **99f:00022**
Festschrift:
Šalát, Tibor ★ Real functions. **99f:00022**
Liptovský Ján ★ Real functions. **99f:00022**
Real functions ★ Real functions. **99f:00022**
School:
Real Functions Theory ★ Real functions. **99f:00022**
Transform methods & special functions ★ Transform methods & special functions, Varna '96. **99i:00031**
Varna ★ Transform methods & special functions, Varna '96. **99i:00031**
Workshop:
Transform Methods & Special Functions ★ Transform methods & special functions, Varna '96. **99i:00031**

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Dalmau, M. (*with* Quintanilla, Ramón; Saludes i Closa, Jordi) Bolzano's theorem implies the supremum axiom. (Catalan)
Dubuc, Eduardo J. A note on Cantor sets. (English summary) **99i:26001**
Fuchino, Sakaé (*with* Plewik, Szymon) On a theorem of E. Helly. (English summary) **99c:26001**
Maurey, Bernard (*with* Tacchi, Jean-Pierre) À propos du théorème de densité de Lebesgue. (English summary) [On Lebesgue's density theorem] **99f:26002**
Plewik, Szymon *see* **Fuchino, Sakaé, 99c:26001**
Quintanilla, Ramón *see* **Dalmau, M.; et al.**
Saludes i Closa, Jordi *see* **Dalmau, M.; et al.**
Tacchi, Jean-Pierre *see* **Maurey, Bernard, 99f:26002**

Items with secondary classifications in 26A03

Campillo Herrero, Pedro (*with* Pérez Carreras, Pedro) The notion of continuity from the viewpoint of van Hiele's levels. (Spanish. English and Spanish summaries) **99m:00012**
Ciesielski, Krzysztof² Set-theoretic real analysis. (English summary) **99k:03038**
Herrlich, Horst (*with* Strecker, George E.) When is **N** Lindelöf? (English summary) **99c:03070**
Jasinski, Jakub (*with* Recław, Ireneusz) Restrictions to continuous and pointwise discontinuous functions. (English summary) **99g:26005**
Pérez Carreras, Pedro *see* **Campillo Herrero, Pedro, 99m:00012**
Recław, Ireneusz *see* **Jasinski, Jakub, 99g:26005**
Shelah, Saharon On Ciesielski's problems. (English summary) **99k:03039**
Strecker, George E. *see* **Herrlich, Horst, 99c:03070**

26A06 One-variable calculus

Desbrow, Darrell On evaluating $\int_{-\infty}^{+\infty} e^{ax(x-2b)}dx$ by contour integration round a parallelogram. (English summary) **99h:26002**
Fan, Shou Fang Improvements concerning the asymptotic value of the "intermediate point" in the second mean value theorem for integrals. (Chinese. English and Chinese summaries)
Hartley, Michael I. How to build a leaning tower.
Khan, Mumtaz Ahmad On some mathematical observations.
Liu, Chang Mao A generalized Cauchy mean value theorem. (Chinese. English and Chinese summaries)
Mazhar, S. M. A note on a theorem of Mercer. (English summary) (*see* **99d:00019**)
Petre, Constantin On the relation between a theorem of Picone and the Cesàro-Stolz theorem. (Romanian. English summary)
— *see also* **Addenda: "On the relation between a theorem of Picone and the Cesàro-Stolz theorem"**
Purushotham, G. Generalisation of Fresnel's and Euler's integrals. (English summary) **99h:26003**
Sofo, Anthony On the integral $(\sin x)^{p+q}/x^q$.
Wang, Chun Jie The arc length of the lemniscate $|w^2 + c| = 1$. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Addenda:
"On the relation between a theorem of Picone and the Cesàro-Stolz theorem" Addendum: "On the relation between a theorem of Picone and the Cesàro-Stolz theorem" [Stud. Cerc. Mat. **46** (1994), no. 2, 281–290] by C. Petre. (Romanian)

Items with secondary classifications in 26A06

Durán, Ana Lía (*with* Estrada, Ricardo) An extension of the integral test. (English summary) **99i:40001**
Estrada, Ricardo *see* **Durán, Ana Lía, 99i:40001**

26A09 Elementary functions

Qi, Feng (*with* Xu, Sen Lin) The function $(b^x - a^x)/x$: inequalities and properties. (English summary) **99a:26001**
Xu, Sen Lin *see* **Qi, Feng, 99a:26001**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Ďurčić, Dragan $\mathscr{O}$-regularly varying functions and some asymptotic relations. (English summary) **99g:26001**
— $\mathscr{O}$-regularly varying functions and strong asymptotic equivalence. (English summary) **99c:26002**
Ostrogorski, Tatjana Regular variation in $\mathbf{R}_+^n$. **99g:26002**
— Regular variation and the Banach-Steinhaus theorem. **99h:26004**
Szekeres, George Abel's equation and regular growth: variations on a theme by Abel. (English summary) **99m:26001**

Items with secondary classifications in 26A12

Fiorenza, Alberto (*with* Krbec, Miroslav) Indices of Orlicz spaces and some applications. (English summary) **99b:46032**
van der Hoeven, Joris Generic asymptotic expansions. (English summary) **99c:11158**
Krbec, Miroslav *see* **Fiorenza, Alberto, 99b:46032**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Amanzhaev, G. G. On discrete analogues of functions of fractional smoothness. (Russian. Russian summary) **99e:26001**
Banaszewski, Dariusz (*with* Ciesielski, Krzysztof²) Compositions of two additive almost continuous functions. (English summary) **99f:26003**
Banaszewski, Krzysztof Algebraic properties of functions with the Cantor intermediate value property. (English summary) **99h:26005**
Červeňanský, J. (*with* Toma, Vladimír) On quasi-Dini systems. (English summary) **99g:26003**
Ciesielski, Krzysztof² (*with* Gibson, Richard G.; Natkaniec, Tomasz) κ-to-1 Darboux-like functions. (English summary) **99f:26004**
— (*with* Natkaniec, Tomasz) On Sierpiński-Zygmund bijections and their inverses. (English summary) **99k:26001**
— Some additive Darboux-like functions. (English summary) **99i:26002**
— *see also* **Banaszewski, Dariusz, 99f:26003**
Doboš, Jozef Sums of closed graph functions. (English summary) **99g:26004**
Doliwa, Dariusz (*with* Pawlak, Ryszard Jerzy) On the almost continuity of the diagonal of functions. (English summary) **99h:26006**
Fast, Henry A few remarks about equality of indicatrices of two functions and a conjecture. (English summary) **99d:26001**
Filipczak, Małgorzata On Foran's sequence conditions. (English summary) **99h:26007**
Gibson, Richard G. *see* **Ciesielski, Krzysztof²; et al., 99f:26004**
Jasinski, Jakub (*with* Recław, Ireneusz) Restrictions to continuous and pointwise discontinuous functions. (English summary) **99g:26005**
Katafiasz, A. 1-improvable discontinuous functions. **99a:26002**
Kellum, Kenneth R. Compositions of Darboux-like functions. (English summary) **99b:26003**
Lewicki, Grzegorz *see* **Marino, Giuseppe; et al., 99m:26002**
Marino, Giuseppe (*with* Lewicki, Grzegorz; Pietramala, Paolamaria) Finite chainability, locally Lipschitzian and uniformly continuous functions. (English summary) **99m:26002**
Mil'man, V. A. Extension of functions that preserve the modulus of continuity. (Russian. Russian summary) **99d:26002**
Mimna, Roy A. (*with* Wingler, Eric J.) Locally bounded functions. **99e:26002**
Morayne, Michał (*with* Ryll-Nardzewski, C.) Errata: "Superpositions with differences of semicontinuous functions" [Houston J. Math. **22** (1996), no. 4, 719–735; MR 98g:26004]. **Nasyrov, F. S.** On the generalized Lebesgue decomposition of a continuous function. (Russian) **99g:26006**
Natkaniec, Tomasz Some cardinal invariants in real analysis. (English summary) **99i:26003**
— *see also* **Ciesielski, Krzysztof²; et al., 99f:26004** *and* **99k:26001**
Pawlak, Ryszard Jerzy *see* **Doliwa, Dariusz, 99h:26006**
Pietramala, Paolamaria *see* **Marino, Giuseppe; et al., 99m:26002**
Recław, Ireneusz *see* **Jasinski, Jakub, 99g:26005**
Rosen, Harvey An almost continuous nonextendable function. (English summary) **99d:26003**
— Darboux quasicontinuous functions. (English summary) **99g:26007**
Ryll-Nardzewski, C. *see* **Morayne, Michał**
Strońska, Ewa On the maximal families for some special classes of strongly quasi-continuous functions. (English summary) **99g:26008**
Toma, Vladimír *see* **Červeňanský, J., 99g:26003**
Tripathi, Gautam A matrix extension of the Cauchy-Schwarz inequality. (English summary)
Wingler, Eric J. *see* **Mimna, Roy A., 99e:26002**
Yang, Bi Cheng (*with* Zhu, Yun Hua) An improvement on Hardy's inequality. (Chinese. English and Chinese summaries)
Zhai, Bin A criterion for uniform continuity of a function. (Chinese. English and Chinese summaries)
Zhu, Yun Hua *see* **Yang, Bi Cheng**

Items with secondary classifications in 26A15

Adrian, Duma (*with* Alexandru, Leonte) A surjective topological degree for discontinuous functions.
Agratini, Octavian Asymptotic formulae for recursively defined Baskakov-type operators. (English summary) **99f:41026**
Agronsky, S. J. (*with* Ceder, J. G.; Pearson, T. L.) Some characterizations of Darboux Baire 1 functions. (English summary) **99h:26008**
Alexandru, Leonte *see* **Adrian, Duma**
Baron, Karol (*with* Kucia, Anna) On regularity of functions connected with orthogonal additivity. (English summary) **99m:39022**
Cater, F. S. On continuous one-to-one functions on sets of real numbers. **99h:54019**
Ceder, J. G. *see* **Agronsky, S. J.; et al., 99h:26008**
Ciesielski, Krzysztof² (*with* Natkaniec, Tomasz) Algebraic properties of the class of Sierpiński-Zygmund functions. (English summary) **99c:04003**
— (*with* Dikranjan, Dikran N.; Watson, W. Stephen) Functions characterized by images of sets. **99f:54013**
Dikranjan, Dikran N. *see* **Ciesielski, Krzysztof²; et al., 99f:54013**
Goswamy, K. C. Blumberg's property on density topological spaces. **99j:54017**
Janiš, Vladimír² Fuzzy uniformly continuous functions. (English summary) (*see* **99f:00022**)
Johnson, Peter D., Jr. Continuous functions which change sign without properly crossing the x-axis. (English summary) **99b:41018**
Jones, Sara Hawtrey Applications of the Baire category theorem. **99h:26012**
Kucia, Anna *see* **Baron, Karol, 99m:39022**
Kupka, Ivan A generalised uniform convergence and Dini's theorem. (English summary) **99f:54007**
Maesumi, Mohsen On construction of a family of smooth nonseparable prewavelets via infinite products of triangularizable matrices. (English summary) **99i:42050**
Maliszewski, Aleksander On the insertion of Darboux functions. (English summary) **99h:26009**
Marino, Giuseppe When is any continuous function Lipschitzian? **99i:54039**
Matveev, E. R. On the modulus of continuity for k-monotone functions. (English summary) **99j:41014**
Mimna, Roy A. Omega-limit sets and non-continuous functions. (English summary) **99m:26003**
Natkaniec, Tomasz *see* **Ciesielski, Krzysztof², 99c:04003**
Parvanov, P. E. A characterization of best multivariate algebraic approximations from below and from above in terms of K-functionals. (English summary) **99g:41027**
Pearson, T. L. *see* **Agronsky, S. J.; et al., 99h:26008**
Polyakov, O. V. On inequalities for the seminorms of some classes of differentiable periodic functions. (Russian. English and Ukrainian summaries) **99m:41020**
Svetic, R. E. (*with* Volkmer, Hans) On the ultimate Peano derivative. (English summary) **99b:26006**
Turinici, Mihai Differential mean value properties for quasi-continuous functions. I. **99m:46109a**
— Differential mean value properties for quasi-continuous functions. II. **99m:46109b**

Volkmer, Hans *see* **Svetic, R. E., 99b:26006**
Watson, W. Stephen *see* **Ciesielski, Krzysztof[2]; et al., 99f:54013**

26A16 Lipschitz (Hölder) classes

Aubry, Jean-Marie Representation of the singularities of a function. (English summary) **99j:26002**
Daoudi, K. (*with* Lévy Véhel, Jacques; Meyer, Yves) Construction of continuous functions with prescribed local regularity. (English summary) **99f:26005**
Dubatovskaya, M. V. On a special factorization problem. (Russian. English and Russian summaries)
Keleti, Tamás Periodic Lip$^{\alpha}$ functions with Lip$^{\beta}$ difference functions. **99b:26004**
Lévy Véhel, Jacques *see* **Daoudi, K.; et al., 99f:26005**
Meyer, Yves *see* **Daoudi, K.; et al., 99f:26005**

Items with secondary classifications in 26A16

Alikhani-Koopaei, Aliasghar A counter example on common periodic points of functions. (English summary)
Benoist, Joël Intégration du sous-différentiel proximal: un contre-exemple. (English and French summaries) [Integration of the proximal subdifferential: a counterexample] **99b:49015**
Borwein, Jonathan M. (*with* Girgensohn, R.; Wang, Xianfu) On the construction of Hölder and proximal subderivatives. (English summary) **99k:49032**
David, Guy (*with* Semmes, Stephen) ★ Fractured fractals and broken dreams. (English summary) **99h:28018**
Girgensohn, R. *see* **Borwein, Jonathan M.; et al., 99k:49032**
Hanin, Leonid G. Closed ideals in algebras of smooth functions. (English summary) **99e:46065**
Keleti, Tamás Difference functions of periodic measurable functions. (English summary) **99e:28007**
Langenbach, Arno Über lokale Eigenschaften von Lipschitz-Abbildungen. [On local properties of Lipschitz mappings] **99j:26020**
Lewicki, Grzegorz *see* **Marino, Giuseppe; et al., 99m:26002**
Marco Montoro, Luis (*with* Murillo, José Alberto) Locally Lipschitz and convex functions. **99b:26016**
Marino, Giuseppe When is any continuous function Lipschitzian? **99i:54039**
— (*with* Lewicki, Grzegorz; Pietramala, Paolamaria) Finite chainability, locally Lipschitzian and uniformly continuous functions. (English summary) **99m:26002**
Meyer, Yves ★ Wavelets, vibrations and scalings. **99i:42051**
Morayne, Michał (*with* Ryll-Nardzewski, C.) Errata: "Superpositions with differences of semicontinuous functions" [Houston J. Math. **22** (1996), no. 4, 719–735; MR 98g:26004]. **99h:26009**
Murillo, José Alberto *see* **Marco Montoro, Luis, 99b:26016**
Pallaschke, Diethard (*with* Urbański, Ryszard) Critical points and point derivations for Lipschitz functions. (English summary) **99k:49037**
Pietramala, Paolamaria *see* **Marino, Giuseppe; et al., 99m:26002**
Ryll-Nardzewski, C. *see* **Morayne, Michał**
Schaible, Siegfried Criteria for generalized monotonicity. (English summary) **99f:90151**
Semmes, Stephen *see* **David, Guy, 99h:28018**
Urbański, Ryszard *see* **Pallaschke, Diethard, 99k:49037**
Wang, Xianfu *see* **Borwein, Jonathan M.; et al., 99k:49032**

26A18 Iteration [see also 39B12, 47H10, 54H25, 58F08, 58F13]

Alikhani-Koopaei, Aliasghar On common fixed and periodic points of commuting functions. (English summary) **99g:26009**
Babilonová, Marta On a conjecture of Agronsky and Ceder concerning orbit-enclosing ω-limit sets. (English summary) **99i:26004**
Mimna, Roy A. Omega-limit sets and non-continuous functions. (English summary) **99m:26003**
Mohseni Moghadam, Mahmoud (*with* Panahi, Mehdi) Application of iterates of maps on the unit interval concerning equicontinuity and its various equivalent forms. (English and Persian summaries) **99j:26003**
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Bobok, Jozef (*with* Kuchta, Milan) X-minimal patterns and a generalization of Sharkovskiĭ's theorem. (English summary) **99d:58057**
Borodich, F. M. Parametric homogeneity and non-classical self-similarity. I. Mathematical background. (English summary) **99h:00010**
— Parametric homogeneity and non-classical self-similarity. II. Some applications. (English summary) **99h:00011**
Bucur, Liliana-Maria Sur la dynamique chaotique des quelques applications monotones sur morceaux. [Chaotic dynamic of some piecewise monotonic mappings]
Camelier, Ricardo (*with* Gutierrez, Carlos) Affine interval exchange transformations with wandering intervals. (English summary) **99e:58117**
Ezquerro, J. A. (*with* Hernández Verón, Miguel A.; Salanova, M. A.) Construction of iterative processes with high order of convergence. (English summary) **99f:65073**
Fan, Qinjie (*with* Li, Huiru; Zhai, Yanhui) Topological entropy for solutions of p-order Feigenbaum's functional equations. (English summary) **99f:39034**
Freitas, L. P. *see* **Aldrovandi, R., 99h:58120**
Gutierrez, Carlos *see* **Camelier, Ricardo, 99e:58117**
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Hric, Roman Topological sequence entropy for maps of the interval. (English summary) **99j:58141**
Kahlig, Peter (*with* Smítal, Jaroslav) On a parametric functional equation of Dhombres type. (English summary) **99j:39019**
Kuchta, Milan *see* **Bobok, Jozef, 99d:58057**
Li, Huiru *see* **Fan, Qinjie; et al., 99f:39034**
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Mai, Jie Hua Multi-separation, centrifugality and centripetality imply chaos. (English summary) **99c:58110**
Maĭstrenko, Yurīĭ L. (*with* Popovich, O. V.) Existence and stability of periodic solutions of chains of coupled oscillators. (Ukrainian. English and Ukrainian summaries) **99b:58132**
Maliszewski, Aleksander On the differences of upper semicontinuous quasi-continuous functions. (English summary)
Matkowski, Janusz Iteration groups with generalized convex and concave elements. (English summary) (*see* **99h:58001**)
Mulvey, Irene A geometric algorithm to decide the forcing relation on cycles. (English summary) **99j:58164**
Murray, Rua Approximation error for invariant density calculations. (English summary) **99e:28033**
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Salanova, M. A. *see* **Ezquerro, J. A.; et al., 99f:65073**
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Zdun, Marek Cezary On the orbits of disjoint groups of continuous functions. (English and Serbo-Croatian summaries) **99a:39053**
Zeng, Fan Ping (*with* Xi, Hong Jian; Luo, Zhi Ming) A note on Hillam's iteration scheme. (English and Chinese summaries)
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Zweimüller, Roland Ergodic structure and invariant densities of non-Markovian interval maps with indifferent fixed points. (English summary) **99e:58125**

26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

Agronsky, S. J. (*with* Ceder, J. G.; Pearson, T. L.) Some characterizations of Darboux Baire 1 functions. (English summary) **99h:26008**
Bartoszewicz, Artur On density points of subsets of metric space with respect to the measure given by Radon-Nikodym derivative. **99e:26003**
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Maliszewski, Aleksander On the insertion of Darboux functions. (English summary) **99h:26009**
— On the averages of Darboux functions. (English summary) **99e:26004**
Pearson, T. L. *see* **Agronsky, S. J.; et al., 99h:26008**
Rusu, Dănuț Density-type topologies. **99c:26003**
Solecki, Sławomir Decomposing Borel sets and functions and the structure of Baire class 1 functions. (English summary) **99h:26010**

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Basu, Sanjib[1] Generalization of a theorem of S. Kurepa and its category analogue. (English summary) **99a:28001**
Bukovský, Lev Trigonometric thin sets and γ-set. (*see* **99a:54002**)
Ganguly, D. K. (*with* Majumdar, Madhabendu) Some results on projection of planar sets. (English summary) **99j:28001**
Járai, Antal (*with* Sander, Wolfgang) A regularity theorem in information theory. (English summary) **99c:39029**
Kahane, Jean-Pierre A few generic properties of Fourier and Taylor series. (English summary) **99m:42007**
Majumdar, Madhabendu *see* **Ganguly, D. K., 99j:28001**
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Popescu, Marcela (*with* Popescu, Paul) The Darboux's property and the $\overline{P}(P)$-derivability. (English summary) **99m:26005**
Popescu, Paul *see* **Popescu, Marcela, 99m:26005**
Rosen, Harvey Darboux quasicontinuous functions. (English summary) **99g:26007**
Ryll-Nardzewski, C. *see* **Morayne, Michał**
Sander, Wolfgang *see* **Járai, Antal, 99c:39029**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Abian, Alexander (*with* Wilson, James A.) Derivatives at boundary points. (English summary) **99i:26005**
— *see also* **Kemp, Paula**
Baĭdel'dinov, B. L. Functions with an integrable weighted derivative that stabilize toward a generalized polynomial. (Russian) **99d:26004**
Berezhnoĭ, E. I. On the differentiation of integrals of functions from symmetric spaces by differential bases. (Russian. English summary) **99f:26006**
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Buczolich, Zoltán (*with* Darji, Udayan B.; O'Malley, R. J.) Irrational rotations and differentiability. (English summary) **99b:26005**
Buliga, Marius The topological substratum of the derivative. I. (English summary)
Cater, F. S. On derivatives vanishing almost everywhere on certain sets. (English summary) **99g:26010**
Chaljub-Simon, Alice (*with* Volkmann, Peter) Perturbations de fonctions additives. (English and French summaries) [Perturbations of additive functions] **99f:26007**
Ciesielski, Krzysztof[2] Characterizing derivatives by preimages of sets. (English summary) **99m:26004**

Csörnyei, Marianna Density theorems revisited. (English summary) **99e:26005**
— Remark on the space of restricted derivatives.
Darji, Udayan B. *see* **Buczolich, Zoltán; et al., 99b:26005**
Ene, Vasile Convergence and approximate differentiation. (English summary) **99i:26006**
Freiling, Chris (*with* Rinne, D.; Thomson, Brian S.) A Riemann-type integral based on the second symmetric derivative. (English summary) **99c:26004**
— On the problem of characterizing derivatives. (English summary) **99d:26005**
Halic, Gheorghe (*with* Kovacs, Edith) Partial H-derivatives. (English and Romanian summaries) (*see* **99i:00014**)
— A generalization of the n-th order derivative of a function. (English and Romanian summaries) (*see* **99i:00027**)
— *see also* **Kovacs, Edith, (99i:00027)**
Hejduk, Jacek On the Peano derivatives of functions having the Baire property. (English summary) **99k:26002**
Hong, Yong[2] A higher-order differential mean value theorem and its applications. (Chinese. English and Chinese summaries)
Humke, P. D. (*with* Skvortsov, V. A.) Symmetric primitives and Lusin's condition $\mathcal{N}$. **99f:26008**
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Kovacs, Edith (*with* Halic, Gheorghe) Remarks on the "H-derivative" concept. (English and Romanian summaries) (*see* **99i:00027**)
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Powers, R. C. (*with* Riedel, Thomas; Sahoo, Prasanna K.) Limit properties of differential mean values. (English summary) **99k:26003**
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Svetic, R. E. (*with* Volkmer, Hans) On the ultimate Peano derivative. (English summary) **99b:26006**
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Borwein, Jonathan M. (*with* Girgensohn, R.; Wang, Xianfu) On the construction of Hölder and proximal subderivatives. (English summary) **99k:49032**
Ene, Vasile Equivalent forms of a result of Malý, Preiss and Zajíček. (English summary) **99j:28004**
Gilányi, Attila A characterization of monomial functions. (English summary) **99g:39027**
— On the stability of the square-norm equation. (English summary) **99e:39082**
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Grande, Zbigniew (*with* Ponomarev, Stanislaw P.) On differentiability of functions of two variables. (English summary) **99g:26030**
Matoušková, Eva (*with* Zajíček, Luděk) Second order differentiability and Lipschitz smooth points of convex functionals. **99m:46107**
Pashaev, A. B. On the derivative of multi-valued functions. (English summary) (*see* **99a:00041**)
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Qi, Feng Generalized weighted mean values with two parameters. (English summary) **99k:26027**
Riedel, Thomas (*with* Sablik, Maciej) Characterizing polynomial functions by a mean value property. (English summary) **99k:39071**
Sablik, Maciej *see* **Riedel, Thomas, 99k:39071**
Sarkhel, D. N. Variational characterisation of functions having Lebesgue integrable derivatives. (English summary) **99d:26014**
Turinici, Mihai Differential mean value properties for quasi-continuous functions. I. **99m:46109a**
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Wang, Xianfu *see* **Borwein, Jonathan M.; et al., 99k:49032**
Zajíček, Luděk *see* **Matoušková, Eva, 99m:46107**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Jiang, Hui You[2] *see* **Tian, Gu Ji**
Jones, Sara Hawtrey Applications of the Baire category theorem. **99h:26012**
Martynov, B. Van der Waerden's pathological function: examining a "miserable sore". **99g:26011**
Tian, Gu Ji (*with* Jiang, Hui You[2]) The property of being of nonmonotone type for Weierstrass-Mandelbrot functions. (Chinese. English and Chinese summaries)

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Kairies, Hans-Heinrich Functional equations for peculiar functions. **99d:39032**
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Popescu, Paul *see* **Popescu, Marcela, 99m:26005**
Wang, Xianfu The subdifferentiability properties of typical functions in $C[0, 1]$. (English summary) **99k:49038**

26A30 Singular functions, Cantor functions, functions with other special properties

Baek, In Soo On deranged Cantor sets. **99k:26005**
Balibrea Gallego, Francisco (*with* La Paz, Claudio) Cantor sets as ω-limits in discrete dynamical systems. (Spanish. Spanish summary) **99d:26006**
Fleury, Gérard En arpentant les arcs. [Spanning the arcs] **99k:26006**
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Kraft, Roger L. A golden Cantor set. **99i:26007**
La Paz, Claudio *see* **Balibrea Gallego, Francisco, 99d:26006**
Liu, Wen[1] An approach to construct the singular monotone functions by using Markov chains. (English summary) **99h:26014**
Lynch, Mark A path having all of its subpaths of infinite length. (English summary)
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Ray, Snigdha Some results of the functions related to the set C_k. (English summary) **99j:26004**

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Ciesielski, Krzysztof[2] Some additive Darboux-like functions. (English summary) **99i:26002**
Morawiec, Janusz Some properties of probability distribution solutions of linear functional equations. (English summary) **99m:39021**
Rusu, Dănuț Density-type topologies. **99c:26003**

26A33 Fractional derivatives and integrals

Almeida, V. M. (*with* Rodríguez Expósito, José) An algebraic derivative and some of its applications. (English summary) **99k:26007**
Bazhlekova, Emilia Duhamel-type representations of the solutions of non-local boundary value problems for the fractional diffusion-wave equation. (English summary) **99i:26008**
Ben Adda, Fayçal La différentiabilité dans le calcul fractionnaire. (English and French summaries) [Differentiability in fractional calculus] **99f:26009**
— Interprétation géométrique de la différentiabilité et du gradient d'ordre réel. (English and French summaries) [Geometric interpretation of the differentiability and gradient of real order] **99g:26012**
Bolia, Mamta *see* **Raina, Ravinder Krishna, 99m:26010**
Bonilla, B. (*with* Trujillo, Juan J.; Rivero, Margarita) On fractional order continuity, integrability and derivability of real functions. (English summary) **99j:26005**
— *see also* **Hayek Calil, Nácere; et al., 99j:26006** *and* **Trujillo, Juan J.; et al., 99j:26010**
Chen, Ming-Po (*with* Srivastava, Hari M.; Yu, Ching-Shu) Some operators of fractional calculus and their applications involving a novel class of analytic functions. (English summary) **99g:26013**
Choi, Junesang A formula related to fractional calculus. (English summary) **99g:26014**
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Diethelm, Kai (*with* Walz, Guido) Numerical solution of fractional order differential equations by extrapolation. (English summary) **99e:26006**
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El-Sayed, Ahmed M. A. On some basic properties and applications of the fractional calculus. (English summary) **99m:26006**
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Gorenflo, Rudolf Fractional calculus: some numerical methods. (English summary) **99d:26007**
— (*with* Mainardi, Francesco) Fractional calculus: integral and differential equations of fractional order. (English summary) **99g:26015**
Guliev, V. S. (*with* Mustafaev, R. Ch.) Fractional integrals in spaces of functions defined on spaces of homogeneous type. (Russian. English and Russian summaries) **99m:26007**
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Kalia, R. N. Fractional calculus and analytic functions. (English summary) **99b:26009**
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Kilbas, A. A. (*with* Saigo, Megumi) Fractional calculus of the H-function. (English summary) **99h:26015**
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Lorente, Maria A characterization of two weight norm inequalities for one-sided operators of fractional type. (English summary) **99d:26009**
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Mainardi, Francesco Fractional calculus: some basic problems in continuum and statistical mechanics. (English summary) **99f:26010**
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— *see also* **Gorenflo, Rudolf, 99g:26015**
Matera, Josefina (*with* Nishimoto, Katsuyuki) N-fractional calculus of some elementary functions. II. (English summary)
Matignon, Denis Stability properties for generalized fractional differential systems. (English and French summaries) **99m:26008**
Miller, Gary R. Shift operators and fractional calculus. (English summary) **99j:26008**
Miyakoda, Tsuyako (*with* Nishimoto, Katsuyuki) N-method to fractional differintegral equations $\varphi_{\pm 3/4} + \varphi \cdot a = f$ $(a \neq 0)$. (English summary)
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Nishimoto, Katsuyuki Kummer's twenty-four functions in N-fractional calculus. (English summary) **99a:26005**
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— *see also* **Matera, Josefina**; **Wu, Tsu-Chen** *and* **Miyakoda, Tsuyako**
Peña, Carlos C. A survey on a certain unsymmetric fractional operator. (English summary) **99f:26011**
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— ★ Fractional differential equations. **99m:26009**
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— (*with* Bolia, Mamta) On a certain subclass of analytic functions involving certain fractional calculus operators. (English summary) **99m:26010**
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Saigo, Megumi (*with* Kilbas, A. A.) Compositions of generalized fractional integration operators with the Fox H-function and a differential operator in axisymmetric potential theory. (Russian. English and Russian summaries) **99g:26016**
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Ali, Ismail (*with* Kalla, Shyam L.) Solution of a class of integro-differential equations by fractional calculus. (English summary) **99m:45010**
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— (*with* Shamandy, A.; Yassen, M. F.) Some applications of fractional calculus operators to a certain subclasses of univalent functions with negative coefficients. (English summary) **99c:30013**
— *see also* **Owa, Shigeyoshi, 99c:30023**
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— *see also* **Raina, Ravinder Krishna; et al., 99j:30014**
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— *see also* **Lin, Shy-Der, 99k:33029**
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— (*with* Shen, Chung Y.) An application of certain fractional operator. (English summary) **99c:30025**
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— (*with* Bolia, Mamta) New classes of distortion theorems for certain subclasses of analytic functions involving certain fractional derivatives. (English summary) **99g:30018**
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— (*with* Kalia, R. N.) Characterizations for subclasses of analytic functions connecting linear fractional calculus operators. (English summary) **99k:30025**
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— *see also* **Kilbas, A. A., 99d:44001**; **Kiryakova, Virginia S.; et al., 99f:30023**; **Kilbas, A. A., 99g:33058**; **Raina, Ravinder Krishna; et al., 99j:30014**; **Kiryakova, Virginia S.; et al., 99k:30021** *and* **Vũ Kim Tuân, 99k:47124**
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Fractional differential systems ★ Systèmes différentiels fractionnaires. [Fractional differential systems] **99h:00027**
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Popovici, Florin A characterization of the antiderivability of the real functions of real variable defining an appropriate integral. **99f:26014**
Zucker, I. J. (*with* Joyce, G. S.; Delves, R. T.) On the evaluation of the integral $\int_0^{\pi/4} \ln(\cos^{m/n}\theta \pm \sin^{m/n}\theta)d\theta$. (English summary) **99g:26019**

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Lu, Jitan (*with* Lee, Peng Yee) The primitives of Henstock integrable functions in Euclidean space. (English summary) **99m:26015**

26A39 Denjoy and Perron integrals, other special integrals

Bongiorno, Benedetto A new integral for the problem of primitives. (Italian. English summary) **99b:26010**
Canoy, Sergio R. (*with* Carpio, Harry M.) On the primitives of integrals in local systems. (English summary) **99m:26012**
— (*with* Navarro, Milagros P.) Nonlinear integral representation of orthogonally additive operators. (English summary) **99m:26013**
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— (*with* Wong, Woon-Kwong; Tan, Geok-Choo) On absolutely Henstock integrable functions. (English summary) **99d:26011**
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— The wide Denjoy integral as the limit of a sequence of stepfunctions in a suitable convergence. (English summary) **99d:26012**
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Goguadze, D. F. On an interrelation between Kolmogorov and Henstock integrals. (Russian. Russian summary) **99e:26008**
Gordon, Russell A. Some comments on the McShane and Henstock integrals. (English summary) **99d:26013**
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— Variations and variational measures in integration theory and some applications. **99k:26009**
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Prepeliță, Valeriu (*with* Doroftei, M.; Vasilache, T.) Peano Baker series convergence for matrix valued functions of bounded variation. (English summary) **99k:26010**
Riečan, Beloslav (*with* Vrábelová, Marta) The Kurzweil construction of an integral in ordered spaces. (English summary) **99g:28024**
Sakurada, Kuninori (*with* Nakanishi, Shizu) Equivalence of the McShane and Bochner integrals for functions with values in Hilbertian (UCs-N) spaces endowed with nuclearity. (English summary) **99i:28018**
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Chen, Hanxiang A pair of adjoint classes of Riemann-Stieltjes integrable functions. (English summary) **99a:26008**
Chew, Tuan-Seng (*with* Tan, Geok-Choo) On the convergence of (L) $\int_{X_n} f$ for nonabsolute integrals. (English summary) **99m:26016**
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Das, A. G. (*with* Nath, Mahadev Chandra; Sahu, Gokul) Generalized Henstock Stieltjes integral. (English summary) **99b:26011**
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Fernández Muñiz, José L. (*with* Alvarez Marín, Luz del Carmen) The R_F-convergence and theorems of Banach-Steinhaus type. (English summary) **99h:28006**
Freiling, Chris (*with* Rinne, D.; Thomson, Brian S.) A Riemann-type integral based on the second symmetric derivative. (English summary) **99c:26004**
Goguadze, D. F. On an interrelation between Kolmogorov and Henstock integrals. (Russian. Russian summary) **99e:26008**
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Zähle, M. Integration with respect to fractal functions and stochastic calculus. I. (English summary) **99j:60073**

26A45 Functions of bounded variation, generalizations

Barnett, Christopher (*with* Camillo, Victor) Uniform limits of step functions. (English summary) **99a:26009**
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Sarkhel, D. N. On the approximately continuous integrals of Burkill and Kubota. (English summary) **99g:26021**
Scherzer, Otmar Denoising with higher order derivatives of bounded variation and an application to parameter estimation. (English summary) **99a:65114**
Skvortsov, V. A. Variations and variational measures in integration theory and some applications. **99k:26009**

26A46 Absolutely continuous functions

Wu, Cong Xin *see* **Yao, Xiao Bo**
Yao, Xiao Bo (*with* Wu, Cong Xin) Differentiability of ACG_{**} functions. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26A46

El-Sayed, Ahmed·M. A. On some basic properties and applications of the fractional calculus. (English summary) **99m:26006**
Ene, Vasile An elementary proof of the Banach-Zarecki theorem. (English summary) **99c:26007**
— On the decomposition theorems of Lebesgue and Jordan. (English summary) **99g:26022**
— Characterizations of $VB^*G \cap (N)$. (English summary) **99g:26024**
— Characterizations of $VBG \cap (N)$. (English summary) **99g:26025**
Grande, Zbigniew (*with* Ponomarev, Stanislaw P.) On differentiability of functions of two variables. (English summary) **99g:26030**
Ponomarev, Stanislaw P. *see* **Grande, Zbigniew, 99g:26030**
Sarkhel, D. N. On the approximately continuous integrals of Burkill and Kubota. (English summary) **99g:26021**
Thomson, Brian S. σ-finite Borel measures on the real line. (English summary) **99f:28005**

26A48 Monotonic functions, generalizations

Brown, Jack B. (*with* Darji, Udayan B.; Larsen, Eric P.) Nowhere monotone functions and functions of nonmonotonic type. (English summary) **99b:26015**
Cater, F. S. On monotonic and analytic functions in C^∞. (English summary) **99d:26015**
Darji, Udayan B. *see* **Brown, Jack B.; et al., 99b:26015**
Giordano, Carla (*with* Palumbo, Biagio; Pečarić, Josip) Remarks on the Hankel determinantal inequalities. (English summary) **99d:26016**
Larsen, Eric P. *see* **Brown, Jack B.; et al., 99b:26015**
Niezgoda, Marek On Schur-Ostrowski type theorems for group majorizations. (English summary) **99j:26013**
Palumbo, Biagio *see* **Giordano, Carla; et al., 99d:26016**
Pečarić, Josip *see* **Giordano, Carla; et al., 99d:26016**
Qi, Feng On a two-parameter family of nonhomogeneous mean values. (English summary) **99g:26026**

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Anderson, G. D. (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Elliptic integral inequalities, with applications. (English summary) **99k:33061**
Bondesson, Lennart On hyperbolically monotone densities. (English summary) **99c:60020**

Burton, G. R. (*with* Douglas, Robert John) Rearrangements and polar factorisation of countably degenerate functions. (English summary) **99h:28031**
Douglas, Robert John *see* **Burton, G. R., 99h:28031**
Ene, Vasile An elementary proof of the Banach-Zarecki theorem. (English summary) **99c:26007**
Qi, Feng (*with* Xu, Sen Lin) The function $(b^x - a^x)/x$: inequalities and properties. (English summary) **99a:26001**
Qiu, Songliang *see* **Anderson, G. D.; et al., 99k:33061**
Vamanamurthy, Mavina K. *see* **Anderson, G. D.; et al., 99k:33061**
Xu, Sen Lin *see* **Qi, Feng, 99a:26001**
Yang, En Hao Some nonlinear integral and discrete inequalities related to Ouyang's inequality. (Chinese. English and Chinese summaries) **99g:26047**

26A51 Convexity, generalizations

Abou-Tair, I. A. (*with* Sulaiman, W. T.) Notes on convex functions. (English summary) **99d:26017**
Cristescu, Gabriela Behaviour and allure. (English and Romanian summaries) (*see* **99i:00014**)
Dappa, Eleonora A characterization of a generalized integral mean preserving convexity. **99e:26010**
Dragomir, Sever Silvestru (*with* Pearce, C. E. M.) Quasi-convex functions and Hadamard's inequality. (English summary) **99k:26011**
— (*with* Wang, Song) A generalization of Bullen's inequality for convex mappings and its applications. (English summary) **99g:26027**
Dubuc, Serge (*with* Zaoui, M.) Sur la quasi-convexité des arcs trinomiaux. (English summary) [The quasiconvexity of trinomial arcs] **99e:26011**
Hasson, Maurice Weighted integrals of n-convex functions. (English summary) **99m:26018**
Huang, Zhi Min (*with* Tian, Cheng Ke) A generalization of a theorem about continuous convex functions and its application. (Chinese. English and Chinese summaries)
Marco Montoro, Luis (*with* Murillo, José Alberto) Locally Lipschitz and convex functions. **99b:26016**
Matkowski, Janusz (*with* Zgraja, Tomasz) A separation theorem for M_φ-convex functions. (English summary) **99e:26012**
McElroy, F. W. Comparative convexity. **99k:26012**
Merkle, Milan Convolutions of logarithmically concave functions. (English summary) **99i:26012**
Murillo, José Alberto *see* **Marco Montoro, Luis, 99b:26016**
Pearce, C. E. M. *see* **Dragomir, Sever Silvestru, 99k:26011**
Pečarić, Josip (*with* Toader, Gh.) On the dual cone of a cone of sequences. (English summary) **99g:26028**
Rolewicz, Stefan On uniformly Φ-convex functions and strongly monotone multifunctions. **99m:26019**
Sulaiman, W. T. *see* **Abou-Tair, I. A., 99d:26017**
Tian, Cheng Ke *see* **Huang, Zhi Min**
Toader, Gh. A measure of convexity of sequences. **99g:26029**
— *see also* **Pečarić, Josip, 99g:26028**
Wang, Ke Cheng The logarithmic concavity of $(1 - 2^{1-r})\zeta(r)$. (Chinese. English and Chinese summaries) **99h:26018**
Wang, Song *see* **Dragomir, Sever Silvestru, 99g:26027**
Zaoui, M. *see* **Dubuc, Serge, 99e:26011**
Zgraja, Tomasz *see* **Matkowski, Janusz, 99e:26012**

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Anderson, G. D. (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Elliptic integral inequalities, with applications. (English summary) **99k:33061**
Andrica, Dorin (*with* Mare, Liviu) An inequality concerning symmetric functions and some applications. (English summary) **99d:26027**
Cojocaru, Ion A generalization of the weakly quasi-concave functions. (English summary)
Cristescu, Gabriela Behaviours. (English and Romanian summaries) (*see* **99i:00027**)
Csordas, George Convexity and the Riemann ξ-function. (English summary) **99h:11099**
Dragomir, Sever Silvestru (*with* Fitzpatrick, Simon) Hadamard's inequality for s-convex functions in the first sense and applications. (English summary) **99i:26023**
Ezquerro, J. A. (*with* Hernández Verón, Miguel A.; Salanova, M. A.) Construction of iterative processes with high order of convergence. (English summary) **99f:65073**
Fitzpatrick, Simon *see* **Dragomir, Sever Silvestru, 99i:26023**
Giordano, Carla (*with* Palumbo, Biagio; Pečarić, Josip) Remarks on the Hankel determinantal inequalities. (English summary) **99d:26016**
Hernández Verón, Miguel A. *see* **Ezquerro, J. A.; et al., 99f:65073**
Mare, Liviu *see* **Andrica, Dorin, 99d:26027**
Mastroianni, Giuseppe (*with* Szabados, J.) On Bernstein-Markov inequalities for n-convex functions. **99f:26034**
Matkowski, Janusz Iteration groups with generalized convex and concave elements. (English summary) (*see* **99h:58001**)
Moţ, Ghiocel Generalized convexity in metric spaces. (English and Romanian summaries) (*see* **99i:00014**)
Niezgoda, Marek On Schur-Ostrowski type theorems for group majorizations. (English summary) **99j:26013**
Nikodem, Kazimierz (*with* Páles, Zsolt) A characterization of midpoint-quasiaffine functions. (English summary) **99g:39034**
Páles, Zsolt *see* **Nikodem, Kazimierz, 99g:39034**
Păltănea, Radu The preservation of the property of the quasiconvexity of higher order by Bernstein's operators. **99a:41012**
Palumbo, Biagio *see* **Giordano, Carla; et al., 99d:26016**
Pečarić, Josip (*with* Svrtan, Dragutin) New refinements of the Jensen inequalities based on samples with repetitions. (English summary) **99f:26020**
— *see also* **Giordano, Carla; et al., 99d:26016**
Qiu, Songliang *see* **Anderson, G. D.; et al., 99k:33061**
Salanova, M. A. *see* **Ezquerro, J. A.; et al., 99f:65073**
Svrtan, Dragutin *see* **Pečarić, Josip, 99f:26020**
Szabados, J. *see* **Mastroianni, Giuseppe, 99f:26034**
Vamanamurthy, Mavina K. *see* **Anderson, G. D.; et al., 99k:33061**
Wang, Min (*with* Xing, Zhi Dong) A new class of pseudoconvex functions. (Chinese. English and Chinese summaries)
Wang, Xue Shun *see* **Xu, Wen Ke**
Xing, Zhi Dong *see* **Wang, Min**
Xu, Wen Ke (*with* Wang, Xue Shun) The weighted average of a function and its convexity. I. (Chinese. English and Chinese summaries)
Zhang, Xin-Min From twin-peaks to multipeaks: an application of Jensen's inequality.

26A99 None of the above, but in this section

Brown, Jack B. C^1-intersection variant of Blumberg's theorem. (English summary) **99k:26013**
Evans, Michael Jon (*with* Humke, P. D.) Contrasting symmetric porosity and porosity. (English summary) **99i:26013**
Humke, P. D. *see* **Evans, Michael Jon, 99i:26013**
Linchuk, S. S. On the rate of convergence of recurrent sequences. (Russian) **99k:26014**
Wang, Wen Li (*with* Wang, Yin He) New concepts of differential and integral for finite discrete functions. (Chinese. English and Chinese summaries)
Wang, Yin He *see* **Wang, Wen Li**

Items with secondary classifications in 26A99

Bundschuh, Peter Gel'fond's transcendence method by elementary means. (English summary) **99i:11058**
Pétermann, Y.-F. S. Is the error term wild enough? (English summary) **99i:11086**

26Bxx Functions of several variables

26B05 Continuity and differentiation questions

Buczolich, Zoltán Functions of two variables with large tangent plane sets. (English summary) **99b:26017**
Dzagnidze, O. P. Some criteria for the differentiability of functions of two variables. (Russian. English and Georgian summaries)
— Differentiability of the indefinite double Lebesgue integral. (Russian. English and Georgian summaries)
Grande, Zbigniew (*with* Ponomarev, Stanislaw P.) On differentiability of functions of two variables. (English summary) **99g:26030**
Kawagishi, Masaki A higher order chain rule and Gevrey functions. **99m:26020**
Körner, Thomas William Butterfly hunting and the symmetry of mixed partial derivatives.
Lavrič, Boris Continuity of order-preserving functions. (English summary) **99g:26031**
Lepsveridze, G. L. On the interrelation between the differentiability of integrals with respect to nets and strong differentiability in various directions. (Russian. English and Georgian summaries)
Matejdes, Milan Continuity points of functions on product spaces. (English summary) **99a:26010**
Mishkov, Roumen L. Formula for the nth derivative of a composite function with a vector argument. (English summary) **99c:26008**
Neelon, Tejinder S. On separate ultradifferentiability of functions. (English summary) **99m:26021**
Németh, S. Z. Scalar derivatives and conformity. **99j:26014**
Okropiridze, M. On the symmetrically continuity of two variables functions. (English summary)
— On the symmetric differentiability of functions of two variables. (English summary)
— Symmetric differentiability of functions of two variables. (English and Georgian summaries)
Oniani, G. G. Some statements connected with the theory of differentiation of integrals. (Russian. English and Georgian summaries)
— On the differentiability of integrals with respect to the bases $B_2(\theta)$. (English summary) **99h:26019**
Oniani, G. T. On possible meanings of upper and lower derivatives. (English summary)
— On R-sets. (English summary)
— On upper and lower derivatives of Lebesgue integral. (English summary)
Pawlak, Helena (*with* Pawlak, Ryszard Jerzy) On s-quasi-continuity and some properties of sections of a function. (English summary) **99i:26014**
Pawlak, Ryszard Jerzy *see* **Pawlak, Helena, 99i:26014**
Ponomarev, Stanislaw P. *see* **Grande, Zbigniew, 99g:26030**
Rabover, V. I. On a construction of a smooth extension. (Russian) **99b:26018**
Ring, Wolfgang (*with* Schöpf, Peter; Schwaiger, Jens) On functions continuous on certain classes of "thin" sets. (English summary) **99b:26019**
Schöpf, Peter *see* **Ring, Wolfgang; et al., 99b:26019**
Schwaiger, Jens *see* **Ring, Wolfgang; et al., 99b:26019**
Shnol', È. È. Functions of two variables that are continuous along straight lines. (Russian. Russian summary) **99e:26013**
Skvortsov, V. A. Approximate symmetric variation and Luzin's N-property. (Russian. Russian summary) **99b:26020**

Items with secondary classifications in 26B05

Anastassiou, George A. Differentiated shift-invariant integral operators, multivariate case. (English summary) **99b:41013**
Azé, Dominique (*with* Poliquin, R. A.) Equicalmness and epiderivatives that are pointwise limits. (English summary) **99b:49014**
Bobylev, N. A. (*with* Ivanenko, S. A.; Ismailov, I. G.) Some remarks on homeomorphic mappings. (Russian) **99d:54007**
Borwein, Jonathan M. (*with* Zhu, Qiji J.) Limiting convex examples for nonconvex subdifferential calculus. (English summary) **99m:49023**
Ferone, Vincenzo (*with* Mercaldo, Anna) A second order derivation formula for functions defined by integrals. (English and French summaries) **99g:49019**

Gelashvili, Koba Convergence criterion for $C^\infty(\mathbf{R}^n)$ in the topology of compact convergence of all derivatives. (English and Georgian summaries)
Gorbachëv, D. V. On an extremal problem in the class of differentiable functions of several variables. (Russian. Russian summary) **99b:41005**
Halilović, Armin Semi-variation and multilinear Stieltjes integrals. (English summary) **99g:28022**
Huang, Liren (*with* Ng, Kung Fu) On lower bounds of the second-order directional derivatives of Ben-Tal, Zowe, and Chaney. (English summary) **99f:49019**
Ismailov, I. G. *see* **Bobylev, N. A.; et al., 99d:54007**
Ivanenko, S. A. *see* **Bobylev, N. A.; et al., 99d:54007**
Lepsveridze, G. L. On the question of strong differentiability of integrals along different directions. (English summary)
— On the divergence speed of rectangular averages. (English summary)
— *see also* **Oniani, G. T.**
Mercaldo, Anna *see* **Ferone, Vincenzo, 99g:49019**
Moukamba, Fidèle Elements of anisotropically and approximately differentiable functions theory. (English summary) **99m:41049**
Ng, Kung Fu *see* **Huang, Liren, 99f:49019**
Oniani, G. T. (*with* Lepsveridze, G. L.) On the differentiability of integrals with respect to differential bases formed of rectangles. (English summary)
Poliquin, R. A. *see* **Azé, Dominique, 99b:49014**
Schwartz, Laurent Les théorèmes de Whitney sur les fonctions différentiables. [The Whitney theorems concerning differentiable functions] (*see* **99f:00033**)
Topuriya, S. B. Generalized derivatives and boundary properties of differentiated Poisson integrals for a disk and a half-plane. (English summary)
— Generalized spherical derivatives and boundary value problems. (English summary) **99h:35008**
— Generalized partial derivatives of functions of many variables and boundary value problems. (English summary) **99h:35009**
Wang, Xianfu A note on the Clarke subdifferential. **99b:49022**
Zhu, Qiji J. *see* **Borwein, Jonathan M., 99m:49023**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Di Bella, Beatrice Comment on a paper by J. M. Soriano: "On the existence of zero points" [Appl. Math. Comput. **79** (1996), no. 1, 99–104; MR 97f:26015]. (English summary) **99b:26021**
Mathai, A. M. ★ Jacobians of matrix transformations and functions of matrix argument. **99j:26015**
(Soriano Arbizu, J. M.) *see* **Di Bella, Beatrice, 99b:26021**

Items with secondary classifications in 26B10

Chamberland, Marc (*with* Meisters, Gary) A mountain pass to the Jacobian conjecture. (English summary) **99m:58044**
Dörfner, M. On a theorem of Hernández and Nashed. (English summary) **99g:47142**
Glaister, P. Stationary and equilibrium points—a critical connection.
Langenbach, Arno Über lokale Eigenschaften von Lipschitz-Abbildungen. [On local properties of Lipschitz mappings] **99j:26020**
Meisters, Gary *see* **Chamberland, Marc, 99m:58044**
Olech, Czesław On the Ważewski equation. **99k:34002**
Peretz, Ronen Mappings with a composite part and with a constant Jacobian. (English summary) **99c:14027**

26B12 Calculus of vector functions

Berkove, Ethan (*with* Marchand, Richard) The long arm of calculus. **99j:26016**
Marchand, Richard *see* **Berkove, Ethan, 99j:26016**

Items with secondary classifications in 26B12

Burago, D. Yu. (*with* Kleiner, Bruce) Separated nets in Euclidean space and Jacobians of bi-Lipschitz maps. (English summary) **99d:26018**
Kleiner, Bruce *see* **Burago, D. Yu., 99d:26018**
Stupyalis, L. Some problems in vector analysis. (Russian. Lithuanian summary) **99m:46176**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Biles, Daniel C. (*with* Spraker, John S.) Continuous almost everywhere. (English summary)
Dierolf, Peter (*with* Schmidt, Volker[2]) A proof of the change of variable formula for d-dimensional integrals.
Felgenhauer, U. (*with* Wagner, Marcus) Essential properties of L^∞-functions. (English summary) **99c:26009**
Goginava, U. K. On the multiple Riemann-Stieltjes integral. (Russian. English and Georgian summaries)
Schmidt, Volker[2] *see* **Dierolf, Peter**
Spraker, John S. *see* **Biles, Daniel C.**
Wagner, Marcus *see* **Felgenhauer, U., 99c:26009**
Xi, Chuan Zhi An application of positive matrices to the evaluation of some n-fold integrals. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26B15

Alesker, Semyon Integrals of smooth and analytic functions over Minkowski's sums of convex sets. **99m:52006**
Buczolich, Zoltán (*with* Pfeffer, Washek F.) When absolutely continuous implies σ-finite. (English summary) **99i:28010**
— (*with* Pfeffer, Washek F.) On absolute continuity. **99i:28011**
Dzagnidze, O. P. Lebesgue points and segments for functions of two variables. (Russian. English and Georgian summaries)
Pfeffer, Washek F. *see* **Buczolich, Zoltán, 99i:28010** *and* **99i:28011**
Schechter, Murray Integration over a polyhedron: an application of the Fourier-Motzkin elimination method. **99d:15014**
Song, Dao Jin *see* **Yu, Xing Jiang**
Yu, Xing Jiang (*with* Song, Dao Jin) Integrals of interval-valued functions and fuzzy-valued functions over curves and surfaces. (Chinese. English and Chinese summaries)
Zhong, Shou Guo Bertrand-Poincaré formulas for changing the order of integration in singular integrals of high order on an open arc. (Chinese. English and Chinese summaries) **99k:47125**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

Liu, Ru Yan A study of the relationships among some basic formulas in integral calculus. (Chinese. English and Chinese summaries)

26B25 Convexity, generalizations

Lorente-Pardo, Jerónimo (*with* Sablonnière, Paul; Serrano-Pérez, M. Carmen) On convexity and subharmonicity of some functions on triangles. (English summary) **99m:26022**
Misiak, Aleksander (*with* Ryż, Alicja) φ-functions of N variables. **99i:26015**
Ryż, Alicja *see* **Misiak, Aleksander, 99i:26015**
Sablonnière, Paul *see* **Lorente-Pardo, Jerónimo; et al., 99m:26022**
Serrano-Pérez, M. Carmen *see* **Lorente-Pardo, Jerónimo; et al., 99m:26022**
Smajdor, Wilhelmina Convex differentiable set-valued functions. (English summary) **99h:26020**
Zalgaller, V. A. On the representation of functions of several variables by the difference of convex functions. (Russian. English and Russian summaries) **99f:26016**
Zhang, Xin-Min Optimization of Schur-convex functions. (English summary) **99f:26017**

Items with secondary classifications in 26B25

Bonanno, Gabriele Global optimization of connected functionals. (English summary) **99h:90079**
Breckner, Wolfgang W. Continuity of generalized convex and generalized concave set-valued functions. **99c:47080**
Caffarelli, Luis A. (*with* Gutiérrez, Cristian E.) Singular integrals related to the Monge-Ampère equation. **99f:42030**
Colesanti, Andrea Convexity in finite dimension. (Italian)
Comparato, Susanna Lower semicontinuity for quasi-convex functionals depending on nonlinear operators. **99g:49012**
Dutta, Jayasri (*with* Vetrivel, V.; Nanda, Sudarsan) Semi-invex functions and their subdifferentials. (English summary) **99m:49025**
Floater, Michael S. Total positivity and convexity preservation. (English summary) **99k:41025**
Gutiérrez, Cristian E. *see* **Caffarelli, Luis A., 99f:42030**
Hansen, Frank Operator convex functions of several variables. (English summary) **99b:47022a**
— A correction to: "Operator convex functions of several variables". **99b:47022b**
Hoàng Tụy ★ Convex analysis and global optimization. (English summary) **99i:90001**
Lasserre, Jean B. Homogeneous functions and conjugacy. (English summary) **99k:49075**
Nanda, Sudarsan *see* **Dutta, Jayasri; et al., 99m:49025**
Oustry, François Vertical developments of a convex function. (English summary) **99h:49024**
Patel, R. B. Duality and sufficiency for fractional control problems with invexity. **99j:49042**
Pearce, C. E. M. (*with* Pečarić, Josip) On convexity-like inequalities. (English summary) **99f:26041**
Pečarić, Josip *see* **Pearce, C. E. M., 99f:26041**
Penot, Jean-Paul Duality for radiant and shady programs. (English summary) **99f:90085**
— *see also* **Phạm Hữ'u Sách, 99f:90087**
Phạm Hữ'u Sách (*with* Penot, Jean-Paul) Characterizations of generalized convexities via generalized directional derivatives. (English summary) **99f:90087**
Vetrivel, V. *see* **Dutta, Jayasri; et al., 99m:49025**
Zhang, Ke Wei[1] On some quasiconvex functions with linear growth. (English summary) **99j:49023**

26B30 Absolutely continuous functions, functions of bounded variation

Leonov, A. S. Remarks on the total variation of functions of several variables and on a multidimensional analogue of Helly's choice principle. (Russian. Russian summary) **99i:26016**
Świątek, Bożena Extending Darboux functions with finite variation. (English summary) **99a:26011**

Items with secondary classifications in 26B30

Bellettini, Giovanni (*with* Coscia, A.; Dal Maso, Gianni) Compactness and lower semicontinuity properties in SBD(Ω). **99e:49011**
Bondioli, Cristiana A characterization of some classes of functions spaces by the motions of $\mathbf{R}^n$. (Italian summary) **99e:46038**
Buczolich, Zoltán (*with* Pfeffer, Washek F.) When absolutely continuous implies σ-finite. (English summary) **99i:28010**
— (*with* Pfeffer, Washek F.) On absolute continuity. **99i:28011**
Coscia, A. *see* **Bellettini, Giovanni; et al., 99e:49011**
Dal Maso, Gianni *see* **Bellettini, Giovanni; et al., 99e:49011**
Grande, Zbigniew (*with* Ponomarev, Stanislaw P.) On differentiability of functions of two variables. (English summary) **99g:26030**
Idczak, Dariusz Distributional derivatives of functions of two variables of finite variation and their application to an impulsive hyperbolic equation. (English summary) **99b:46059**
Pfeffer, Washek F. *see* **Buczolich, Zoltán, 99i:28010** *and* **99i:28011**
Ponomarev, Stanislaw P. *see* **Grande, Zbigniew, 99g:26030**

26B35 Special properties of functions of several variables, Hölder conditions, etc.

Burago, D. Yu. (*with* Kleiner, Bruce) Separated nets in Euclidean space and Jacobians of bi-Lipschitz maps. (English summary) **99d:26018**
Dalang, Robert C. (*with* Mountford, T.) Points of increase of functions in the plane. (English summary) **99g:26032**
Kleiner, Bruce *see* **Burago, D. Yu., 99d:26018**
Mountford, T. *see* **Dalang, Robert C., 99g:26032**
Schlude, Konrad Bemerkung zu beschränkt homogenen Funktionen. (German summary) [Remark on bounded homogeneous functions]
Volchkov, V. V. Solution of the support problem for some classes of functions. (Russian. Russian summary) **99c:26010**

Items with secondary classifications in 26B35

Brandolini, Luca Imbedding theorems for Lipschitz spaces generated by the weak-L^p metric. (English summary) **99f:46036**
Korey, Michael Brian Ideal weights: asymptotically optimal versions of doubling, absolute continuity, and bounded mean oscillation. (English summary) **99m:42032**
McMullen, Curtis T. Lipschitz maps and nets in Euclidean space. **99e:58017**
Moussai, Madani Remarque sur le critère de P. G. Lemarié pour la continuité-Besov de certains opérateurs intégraux singuliers. (English, French and Arabic summaries) [Remark on the criterion of P. G. Lemarié for the Besov continuity of certain integral operators] **99c:47078**
Pokorný, Imrich Remarks on the sum of metrics. (English summary) **99i:54038**

26B40 Representation and superposition of functions

Kudryavtsev, L. D. On the expansion with respect to Steklov means of the second differences of functions. (English and Russian summaries) **99f:26018**

Items with secondary classifications in 26B40

Akashi, Shigeo Quantum entropy theoretic aspects of the 13th problem formulated by Hilbert. (English summary) **99b:46095**
Berrone, Lucio R. (*with* Moro, Julio) Lagrangian means. (English summary) **99d:39022**
Buhmann, Martin D. (*with* Pinkus, Allan) Identifying linear combinations of ridge functions. (English summary) **99k:41028**
Gorban′, A. N. A generalized approximation theorem and an exact representation of polynomials of several variables by superpositions of polynomials of one variable. (Russian) **99h:41008**
Moro, Julio *see* **Berrone, Lucio R., 99d:39022**
Pinkus, Allan *see* **Buhmann, Martin D., 99k:41028**
Topuriya, S. B. Boundary properties of a differential Poisson integral in a half-space and the representation of a function of two variables. (Russian. English and Georgian summaries)

26B99 None of the above, but in this section

Ayukaev, R. I. *see* **Nizhnik, P. P.**
Boccuto, Antonio Differential and integral calculus in Riesz spaces. (English summary) **99i:26017**
Janson, Svante On the traveling fly problem. (*see* **99i:05002**)
Nizhnik, P. P. (*with* Ayukaev, R. I.) Anamorphism of the Cartesian nomogram in composite nomograms. (Russian. Russian summary)
Ponomarev, Stanislaw P. On some descriptive characterizations of the N^{-1}-property. **99b:26022**

Items with secondary classifications in 26B99

Banaschewski, Bernhard ★ The real numbers in pointfree topology. **99c:54017**
Garloff, Jürgen *see* **Hungerbühler, Ralf, 99b:65064**
Hungerbühler, Ralf (*with* Garloff, Jürgen) Bounds for the range of a bivariate polynomial over a triangle. (English summary) **99b:65064**
Wilkie, A. J. Schanuel's conjecture and the decidability of the real exponential field. **99b:03053**

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

Jeanquartier, Pierre Une décomposition des fonctions lisses par rapport à un polynôme quasi-homogène. (English and French summaries) [A decomposition of smooth functions relative to a quasihomogeneous polynomial] **99b:26023**
Ongay-Larios, Fausto Cubic polynomials in the interval [0, 1]. (Spanish)

Items with secondary classifications in 26C05

Abad, Julio (*with* Sesma, Javier) Buchholz polynomials: a family of polynomials relating solutions of confluent hypergeometric and Bessel equations. (English summary) **99j:33007**
Arestov, Vitalii V. Exact classical polynomial inequalities in H_p for $0 \le p \le \infty$. (English summary) **99g:26034**
Besga, Concepción *see* **Luquín Martínez, Francisco, 99m:41003**
Harris, Lawrence A. Coefficients of polynomials of restricted growth on the real line. (English summary) **99c:41056**
Luquín Martínez, Francisco (*with* Besga, Concepción) Estimation of norms of multivariate polynomials with integral coefficients. (English summary) **99m:41003**
Sesma, Javier *see* **Abad, Julio, 99j:33007**

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

Carnicer, J. M. (*with* Peña, J. M.) Characterizations of the optimal Descartes' rules of signs. (English summary) **99d:26019**
Ehrich, Sven On orthogonal polynomials for certain nondefinite linear functionals. (English summary) **99k:26015**
Gregor, Jiří (*with* Tišer, Jaroslav) On Hadamard powers of polynomials. (English summary) **99k:26016**
Mignotte, Maurice (*with* Ştefănescu, Doru) On the roots of lacunary polynomials. (English summary) **99k:26017**
Mossinghoff, Michael J. (*with* Pinner, Christopher G.; Vaaler, Jeffrey D.) Perturbing polynomials with all their roots on the unit circle. (English summary) **99b:26024**
Peña, J. M. *see* **Carnicer, J. M., 99d:26019**
Pinner, Christopher G. *see* **Mossinghoff, Michael J.; et al., 99b:26024**
Schmeisser, Gerhard Orthogonal expansion and variations of sign of continuous functions. (English summary) **99f:26019**
Ştefănescu, Doru *see* **Mignotte, Maurice, 99k:26017**
Tišer, Jaroslav *see* **Gregor, Jiří, 99k:26016**
Vaaler, Jeffrey D. *see* **Mossinghoff, Michael J.; et al., 99b:26024**

Items with secondary classifications in 26C10

Anderson, Bruce B. (*with* Jackson, Jeffrey C.; Sitharam, Meera) Descartes' rule of signs revisited. **99e:12001**
Beaucoup, Franck (*with* Borwein, Peter B.; Boyd, David W.; Pinner, Christopher G.) Multiple roots of $[-1, 1]$ power series. (English summary) **99c:30005**
Borwein, Peter B. *see* **Beaucoup, Franck; et al., 99c:30005**
Boyd, David W. *see* **Beaucoup, Franck; et al., 99c:30005**
Hong, Hoon Bounds for absolute positiveness of multivariate polynomials. (English summary) **99k:12002**
Igarashi, Masao Recurrence formulas for zeros of polynomials. (Japanese) (*see* **99i:00028**)
Jackson, Jeffrey C. *see* **Anderson, Bruce B.; et al., 99e:12001**
Jain, Vinay Kumar Certain interesting implications of T. J. Rivlin's result on maximum modulus of a polynomial. (English summary) **99k:30006**
Matioli, Luiz Carlos *see* **Sri Ranga, Alagacone, 99f:33015**
Mostovoy, Jacob Geometry of truncated symmetric products and real roots of real polynomials. (English summary) **99a:57021**
Pinner, Christopher G. *see* **Beaucoup, Franck; et al., 99c:30005**
Savel′ev, L. Ya. Newton and Cardano formulas. (Russian) **99g:05003**
Sitharam, Meera *see* **Anderson, Bruce B.; et al., 99e:12001**
Sri Ranga, Alagacone (*with* Matioli, Luiz Carlos) Bounds for the extreme zeros of polynomials generated by a certain recurrence relation. (English and Portuguese summaries) **99f:33015**
Stojić, Milić R. Relative stability, strict aperiodicity, and positive realness of real polynomials. (English summary) **99f:93107**
Todorov, Pavel G. A natural verification of the Sendov conjecture for the canonical cubic equation and other results for the location of its roots. (English summary) **99i:30010**

26C15 Rational functions [see also 14Pxx]

Lukashov, A. L. Chebyshev-Markov algebraic fractions on several segments. (Russian. English and Russian summaries) **99g:26033**
Mahrt, L. F. (*with* Szidarovszky, Ferenc) A factored form of complex analytic functions and its application to finding partial fraction decompositions. (English summary) **99e:26014**
Szidarovszky, Ferenc *see* **Mahrt, L. F., 99e:26014**

Items with secondary classifications in 26C15

Min, Guo Hua Inequalities for rational functions with prescribed poles. (English summary) **99g:26036**
Rathod, H. T. (*with* Shafiqul Islam, Md.) Integration of rational functions of bivariate polynomial numerators with linear denominators over a $(-1, 1)$ square in a local parametric two-dimensional space. (English summary) **99k:65024**
Shafiqul Islam, Md. *see* **Rathod, H. T., 99k:65024**

26C99 None of the above, but in this section

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Bagh, S. Average number of real roots of random harmonic equations. (English summary) **99k:60105**
Baĭdel′dinov, B. L. Functions with an integrable weighted derivative that stabilize toward a generalized polynomial. (Russian) **99d:26004**
Bernardes, Nilson C., Jr. A theorem on iterations of polynomial maps in several variables. (English summary) **99a:32035**

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15.}

26D05 Inequalities for trigonometric functions and polynomials

Arestov, Vitalii V. Exact classical polynomial inequalities in H_p for $0 \le p \le \infty$. (English summary) **99g:26034**
Askey, Richard Vietoris's inequalities and hypergeometric series. (English summary) **99m:26023**
Aziz, Abdul[1] (*with* Rather, Nisar Ahmed) New L^q inequalities for polynomials. (English summary) **99b:26025**

— (*with* Shah, W. M.) L^p inequalities for polynomials with restricted zeros. (English summary) **99c:26011**
Kuijlaars, A. B. J. (*with* Van Assche, Walter) A problem of Totik on fast decreasing polynomials. (English summary) **99b:26026**
Rather, Nisar Ahmed *see* **Aziz, Abdul[1], 99b:26025**
Shah, W. M. *see* **Aziz, Abdul[1], 99c:26011**
Sklyarov, V. P. On a polynomial inequality of G. Freud. (Russian) **99e:26015**
Van Assche, Walter *see* **Kuijlaars, A. B. J., 99b:26026**

Items with secondary classifications in 26D05

Baran, Mirosław New approach to Markov inequality in L^p norms. (English summary) **99i:41011**
Goetgheluck, P. Two polynomial division inequalities in L^p. (English summary) **99k:41013**
Hong, Hoon (*with* Jakuš, Dalibor) Testing positiveness of polynomials. (English summary) **99m:68096**
Jakuš, Dalibor *see* **Hong, Hoon, 99m:68096**
Kozko, A. I. Analogues of Jackson-Nikol'skiĭ inequalities for trigonometric polynomials in spaces with a nonsymmetric norm. (Russian. Russian summary) **99e:41012**
Mignotte, Maurice (*with* Ştefănescu, Doru) On the roots of lacunary polynomials. (English summary) **99k:26017**
Skalyga, V. I. Analogues of Markov and Bernstein inequalities on convex bodies in Banach spaces. (Russian. Russian summary) **99f:46065**
Smailov, E. S. On the effect of the geometric properties of the spectrum of a polynomial on S. M. Nikol'skiĭ inequalities of different metrics. (Russian. Russian summary) **99j:41025**
Ştefănescu, Doru *see* **Mignotte, Maurice, 99k:26017**

26D07 Inequalities involving other types of functions

Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) Inequalities of Kolmogorov type and some their applications in approximation theory. **99g:26035**
Govil, Narendra K. Some inequalities concerning derivatives of a polynomial and related entire functions. (English summary) (*see* **99d:00019**)
Il'in, A. A. Best constants in multiplicative inequalities for sup-norms. (English summary) **99m:26024**
Kahlig, Peter (*with* Matkowski, Janusz) Decomposition of homogeneous means and construction of some metric spaces. (English summary) **99h:26021**
Kofanov, V. A. *see* **Babenko, Vladislav F.; et al., 99g:26035**
Love, E. R. On an inequality conjectured by T. J. Lyons. (English summary) **99k:26018**
Matkowski, Janusz *see* **Kahlig, Peter, 99h:26021**
Min, Guo Hua Inequalities for rational functions with prescribed poles. (English summary) **99g:26036**
Pečarić, Josip (*with* Svrtan, Dragutin) New refinements of the Jensen inequalities based on samples with repetitions. (English summary) **99f:26020**
Pichugov, S. A. *see* **Babenko, Vladislav F.; et al., 99g:26035**
Qi, Feng A method of constructing inequalities about e^x. (English summary) **99a:26012**
Svrtan, Dragutin *see* **Pečarić, Josip, 99f:26020**

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Alzer, Horst A harmonic mean inequality for the gamma function. (English summary) **99b:33001a**
— Corrigendum: "A harmonic mean inequality for the gamma function". **99b:33001b**
— (*with* Wells, Jim) Inequalities for the polygamma functions. (English summary) **99k:33003**
Anderson, G. D. (*with* Qiu, Songliang; Vuorinen, Matti K.) Precise estimates for differences of the Gaussian hypergeometric function. (English summary) **99k:33010**
— (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Elliptic integral inequalities, with applications. (English summary) **99k:33061**
Aseev, Vladislav V. (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti K.) Quasiadditive properties and bi-Lipschitz conditions. (English summary) **99f:39041**
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Govil, Narendra K. (*with* Mohapatra, Ram Narayan) Bernstein type inequalities for rational functions with prescribed poles. (English summary) **99c:41028**
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Hennessy, David A. Inequalities for composite functions on a lattice. (English summary) **99d:06012**
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Pekarskiĭ, A. A. Inequalities for the derivatives of rational functions in Lorentz spaces. (Russian. English and Russian summaries) **99f:46040**
Ponnusamy, S. (*with* Vuorinen, Matti K.) Asymptotic expansions and inequalities for hypergeometric functions. (English summary) **99b:33004**
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— (*with* Guo, Sen-Lin) Inequalities for the incomplete gamma and related functions. (English summary) **99j:33003**
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Zhang, Xin-Min Optimization of Schur-convex functions. (English summary) **99f:26017**

26D10 Inequalities involving derivatives and differential and integral operators

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Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) On exact inequalities of Landau-Hadamard-Kolmogorov type for functions of several variables. (Russian) **99b:26027**
— Inequalities for norms of intermediate derivatives and some their applications. (English summary) **99d:26020**
Barza, Sorina (*with* Popa, Emil C.) Inequalities related with Carlson's inequality. (English summary) **99d:26021**
Benammar, M. (*with* Bennewitz, C. W.; Beynon, M. J.; Brown, B. Malcolm; Dias, N. G. J.; Evans, William Desmond; Everitt, W. N.; Kirby, V. G.; Littlejohn, Lance L.) A catalogue of HELP and HELP-type integral and series inequalities. (English summary) **99g:26037**
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Everitt, W. N. A Dirichlet-type integral inequality. (English summary) **99f:26022**
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Fang, Ting Gang A new integral inequality and its applications. (Chinese. English and Chinese summaries)
Guo, Shu Li (*with* Si, Li Geng) Generalizations of a class of integral inequalities. (Chinese. English and Chinese summaries)
Gupta, Chaitan P. (*with* Trofimchuk, Sergei I.) A Wirtinger type inequality and a three point boundary value problem. (English summary) **99m:26025**
Hu, Ke An inequality and some of its applications. (Chinese. English and Chinese summaries) **99g:26038**
Kamaly, Amir (*with* Rakotondratsimba, Yves) Weighted inequalities for discrete and integral Hardy operators. (English summary) **99d:26022**
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Prakasa Rao, B. L. S. Inequalities of Weyl-type and information inequalities. (English summary) **99e:26016**
Rakotondratsimba, Yves *see* **Kamaly, Amir, 99d:26022**
Sadikova, R. Kh. Inequalities for sourcewise-representable functions and their applications. (Russian. Russian summary) **99e:26017**
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Sinnamon, Gord One-dimensional Hardy-type inequalities in many dimensions. (English summary) **99f:26023**
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Anastassiou, George A. Opial type inequalities for linear differential operators. (English summary) **99m:34016**

Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) Inequalities for norms of intermediate derivatives of periodic functions and their applications. (English summary) **99f:41012**
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— (*with* Fedotov, I. A.) An inequality of Grüss' type for Riemann-Stieltjes integral and applications for special means. (English summary) **99m:26017**
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Badalahu (*with* Zhu, Rui Ying) The problem of minimizing products of logarithmic means. (Chinese. English and Chinese summaries) **99d:26023**
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Qiu, Songliang *see* **Anderson, G. D.; et al.**, **99k:33010**
Saloff-Coste, Laurent Inequalities for p-superharmonic functions on networks. (English summary) **99b:31009**
Scheicher, Klaus (*with* Tichy, Robert F.; Tomantschger, K. W.) Elementary inequalities in hypercomplex numbers. (English summary) **99j:30053**
Tichy, Robert F. *see* **Scheicher, Klaus; et al.**, **99j:30053**
Toader, Gh. *see* **Pečarić, Josip**, **99g:26028**
Tomantschger, K. W. *see* **Scheicher, Klaus; et al.**, **99j:30053**
Vuorinen, Matti K. *see* **Anderson, G. D.; et al.**, **99k:33010**
Yin, Qinghe *see* **Brown, Gavin**[1], **99g:28002**

26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

Items with secondary classifications in 26E05

van den Dries, Lou (*with* Speissegger, Patrick) The real field with convergent generalized power series. (English summary) **99a:03036**
Gwoździewicz, Janusz (*with* Kurdyka, Krzysztof; Parusiński, Adam) On the number of solutions of an algebraic equation on the curve $y = e^x + \sin x$, $x > 0$, and a consequence for o-minimal structures. (English summary) **99f:03046**
Kurdyka, Krzysztof *see* **Gwoździewicz, Janusz; et al.**, **99f:03046**
Neelon, Tejinder S. On separate ultradifferentiability of functions. (English summary) **99m:26021**
— Ultradifferentiable functions on lines in $\mathbf{R}^n$. (English summary) **99j:46044**
Parusiński, Adam *see* **Gwoździewicz, Janusz; et al.**, **99f:03046**
Schmets, Jean (*with* Valdivia, Manuel) Analytic extension of non-quasi-analytic Whitney jets of Beurling type. (English summary) **99m:46064**
Speissegger, Patrick *see* **van den Dries, Lou**, **99a:03036**
Valdivia, Manuel *see* **Schmets, Jean**, **99m:46064**

26E10 C^∞-functions, quasi-analytic functions [see also 58C25]

Items with secondary classifications in 26E10

Chaumat, Jacques (*with* Chollet, Anne-Marie) Propriétés de l'intersection des classes de Gevrey et de certaines autres classes. (English and French summaries) [Properties of the intersection of Gevrey classes and of some other classes] **99i:46027**
Chollet, Anne-Marie *see* **Chaumat, Jacques**, **99i:46027**
Neelon, Tejinder S. On separate ultradifferentiability of functions. (English summary) **99m:26021**
Schmets, Jean (*with* Valdivia, Manuel) Analytic extension of non-quasi-analytic Whitney jets of Beurling type. (English summary) **99m:46064**
Thilliez, Vincent Sur les fonctions composées ultradifférentiables. (English and French summaries) [Ultradifferentiable composite functions] **99e:58018**
Valdivia, Manuel *see* **Schmets, Jean**, **99m:46064**

26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

Langenbach, Arno Über lokale Eigenschaften von Lipschitz-Abbildungen. [On local properties of Lipschitz mappings] **99j:26020**

Items with secondary classifications in 26E15

Martini, Claude Polynômes harmoniques sur l'espace du bruit blanc. (English and French summaries) [Harmonic analysis on white noise space] **99m:60102**
Rangachari, M. S. Calculus in Banach spaces. **99h:46075**

26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

Items with secondary classifications in 26E20

Turinici, Mihai Differential mean value properties for quasi-continuous functions. I. **99m:46109a**

— Differential mean value properties for quasi-continuous functions. II. **99m:46109b**

Wu, Cong Xin (*with* Ye, Guoju) The McShane integral of Banach-valued functions defined on $\mathbf{R}^n$. I. (English and Chinese summaries) **99h:28024**

Ye, Guoju *see* **Wu, Cong Xin**, **99h:28024**

26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

Pashaev, A. B. On the derivative of multi-valued functions. (English summary) (*see* **99a:00041**)

Items with secondary classifications in 26E25

Amrani, Allal Lemme de Fatou pour l'intégrale de Pettis. (English summary) [Fatou lemma for the Pettis integral] **99h:28027**

Breckner, Wolfgang W. Continuity of generalized convex and generalized concave set-valued functions. **99c:47080**

Dentcheva, Darinka Differentiable selections and Castaing representations of multifunctions. (English summary) **99f:49016**

Ewert, Janina Semicontinuity of topological limits of multivalued maps. (English summary) **99h:54029**

Fan, Jiang Hua (*with* Wang, Ze Ke) A note on vector labelling algorithm. (English summary) **99c:90118**

Kominek, Zygfryd Note on selection of Jensen set-valued functions. (English summary) **99j:39023**

Kwiecińska, Grażyna (*with* Ślęzak, W.) On complete measurability of multifunctions defined on product spaces. **99g:54011**

Mo, Shao Kui A new treatment of multivalued functions. (Chinese. English and Chinese summaries)

Repovš, Dušan D. (*with* Semenov, Pavel V.) A selection theorem for mappings with nonconvex nondecomposable values in L_p-spaces. **99a:54012**

Rong, Wei Dong (*with* Wu, Yu Nan) Characterizations of super efficiency in cone-convexlike vector optimization with set-valued maps. (English summary) **99m:90126**

Semenov, Pavel V. *see* **Repovš, Dušan D.**, **99a:54012**

Ślęzak, W. *see* **Kwiecińska, Grażyna**, **99g:54011**

Smajdor, Andrzej Increasing iteration semigroups of Jensen set-valued functions. (English summary) **99g:39024**

Smajdor, Wilhelmina Convex differentiable set-valued functions. (English summary) **99h:26020**

Sussmann, Héctor J. Multidifferential calculus: chain rule, open mapping and transversal intersection theorems. **99j:49030**

Száz, Árpád The intersection convolution of relations and the Hahn-Banach type theorems. (English summary) **99m:46006**

Urbaniec, Piotr A note on multivalued Baire category theorem. (English summary) **99f:54023**

Wang, Ze Ke *see* **Fan, Jiang Hua**, **99c:90118**

Wu, Yu Nan *see* **Rong, Wei Dong**, **99m:90126**

26E30 Non-Archimedean analysis [see also 12J25]

Balan, A. P. M. *see* **da Costa, Newton C. A.; et al.**, **99i:26031**

da Costa, Newton C. A. (*with* Kouneiher, J.; Balan, A. P. M.) Continu et infinis: introduction à l'analyse pré- et antéréelle. (English summary) [The continuum and the infinite: introduction to pre- and ante-real analysis] **99i:26031**

Kouneiher, J. *see* **da Costa, Newton C. A.; et al.**, **99i:26031**

Items with secondary classifications in 26E30

Voloch, José Felipe Differential operators and interpolation series in power series fields. **99j:13019**

26E35 Nonstandard analysis [see also 03H05, 28E05, 54J05]

Cutland, Nigel J. Nonstandard real analysis. **99b:26043**

Kalina, Martin Derivatives and differentials within nonstandard models. (English summary) **99e:26024**

Items with secondary classifications in 26E35

Bell, John L. ★ A primer of infinitesimal analysis. (English summary) **99h:00002**

Borde, Pascal Strongly near-standard functions in Lebesgue's spaces. (English summary) **99j:28019**

Henson, C. Ward Foundations of nonstandard analysis: a gentle introduction to nonstandard extensions. **99i:03085**

Li, Chun Wen A new number system and its calculus. III. Differentiation and integration. (Chinese. English and Chinese summaries)

Medvedev, F. A. Nonstandard analysis and the history of classical analysis. **99g:01003**

(Shenitzer, Abe) *see* **Medvedev, F. A.**, **99g:01003**

26E40 Constructive real analysis [see also 03F60, 03F65]

Items with secondary classifications in 26E40

Bridges, Douglas (*with* Wang, Yuchuan) Constructing cutoff functions. (English summary) **99d:03058**

— (*with* Ishihara, Hajime) A definite constructive open mapping theorem? (English summary) **99f:46009**

Ishihara, Hajime *see* **Bridges, Douglas**, **99f:46009**

Wang, Yuchuan *see* **Bridges, Douglas**, **99d:03058**

26E50 Fuzzy real analysis [see also 04A72, 28E10]

Guo, Cai Mei *see* **Wu, Cong Xin; et al.**

Jamison, K. David (*with* Lodwick, Weldon A.) Minimizing unconstrained fuzzy functions. (English summary) **99k:26030**

Lodwick, Weldon A. *see* **Jamison, K. David**, **99k:26030**

Marková-Stupňanová, Andrea A note on the idempotent functions with respect to pseudo-convolution. (English summary) **99k:26031**

Qiao, Zhong (*with* Zhang, Yue[1]; Wang, Guangyuan) Fuzzy random variable-valued exponential function, logarithmic function and power function. (English summary) **99i:26032**

Syau, Yu-Ru On convex and concave fuzzy mappings. (English summary) **99i:26033**

Wang, Guangyuan *see* **Qiao, Zhong; et al.**, **99i:26032**

Wu, Cong Xin (*with* Zhang, De Li; Guo, Cai Mei) Representations of generalized fuzzy integrals. I. (Chinese. English and Chinese summaries)

Zhang, De Li *see* **Wu, Cong Xin; et al.**

Zhang, Yue[1] *see* **Qiao, Zhong; et al.**, **99i:26032**

Items with secondary classifications in 26E50

De Baets, Bernard *see* **Tsiporkova-Hristoskova, Elena; et al.**, **99b:54008**

Kerre, Etienne E. *see* **Tsiporkova-Hristoskova, Elena; et al.**, **99b:54008**

Ma, Bo The Fubini theorem for F-valued integrals and the strong law of large numbers. (Chinese. English and Chinese summaries) **99j:60042**

Qiao, Zhong *see* **Zhang, Yue[1]; et al.**, **99b:34015**

Tsiporkova-Hristoskova, Elena (*with* De Baets, Bernard; Kerre, Etienne E.) Continuity of fuzzy multivalued mappings. (English summary) **99b:54008**

Wang, Guangyuan *see* **Zhang, Yue[1]; et al.**, **99b:34015**

Wu, Cong *see* **Wu, Cong Xin**, **99b:03070**

Wu, Cong Xin (*with* Wu, Cong) The supremum and infimum of the [a] set of fuzzy numbers and its [their] application. **99b:03070**

Wu, Hsien-Chung The improper fuzzy Riemann integral and its numerical integration. (English summary) **99j:26012**

Wu, Quan Hua The fuzzy contraction principle. (Chinese. English and Chinese summaries)

Zhang, Yue[1] (*with* Qiao, Zhong; Wang, Guangyuan) Solving processes for a system of first-order fuzzy differential equations. (English summary) **99b:34015**

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aliprantis, Charalambos D. (*with* Burkinshaw, Owen) ★ Problems in real analysis. (English summary) **99g:28001**
Berberian, Sterling K. ★ Fundamentals of real analysis. (English summary) **99i:28001**
Burkinshaw, Owen *see* **Aliprantis, Charalambos D., 99g:28001**
Chandrasekharan, K. ★ A course on integration theory. (English summary) **99k:28001**
Chatterji, Srishti D. Measure theory and probability theory. **99i:28002**
(Chovanec, Ferdinand) *see* **Riečan, Beloslav, 99e:28001**
Constantinescu, Corneliu (*with* Filter, Wolfgang; Weber, Karl) ★ Advanced integration theory. (English summary) **99m:28001**
Filter, Wolfgang *see* **Constantinescu, Corneliu; et al., 99m:28001**
(Kirchheimová, Hana) *see* **Riečan, Beloslav, 99e:28001**
(Köpka, František) *see* **Riečan, Beloslav, 99e:28001**
Neubrunn, Tibor *see* **Riečan, Beloslav, 99e:28001**
Priestley, H. A. ★ Introduction to integration. (English summary) **99d:28001**
Rana, Inder K. ★ An introduction to measure and integration. (English summary) **99m:28002**
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Integral, measure, and ordering. (English summary) **99e:28001**
(Riečanová, Zdenka) *see* **Riečan, Beloslav, 99e:28001**
(Sontag, Alexia) *see* **Constantinescu, Corneliu; et al., 99m:28001**
Stroock, Daniel W. ★ A concise introduction to the theory of integration. (English summary) **99i:28003**
Wagschal, Claude ★ Intégration. (French. French summary) [Integration]
Weber, Karl *see* **Constantinescu, Corneliu; et al., 99m:28001**

Items listed otherwise than by author

Problems:
Integration *see* **Wagschal, Claude**

Items with secondary classifications in 28–01

Igari, Satoru ★ Real analysis—with an introduction to wavelet theory. (English summary) **99g:00005**
König, Heinz J. E. ★ Measure and integration. (English summary) **99h:28001**
Leont'eva, T. A. (*with* Panferov, V. S.; Serov, V. S.) ★ Задачи по теории функций действительного переменного. (Russian. Russian summary) [Problems in the theory of functions of a real variable] **99e:00003**
Panferov, V. S. *see* **Leont'eva, T. A.; et al., 99e:00003**
Serov, V. S. *see* **Leont'eva, T. A.; et al., 99e:00003**

28–02 Research exposition (monographs, survey articles)

Kharazishvili, A. B. ★ Applications of point set theory in real analysis. (English summary) **99c:28001**
König, Heinz J. E. ★ Measure and integration. (English summary) **99h:28001**

Items with secondary classifications in 28–02

Constantinescu, Corneliu (*with* Filter, Wolfgang; Weber, Karl) ★ Advanced integration theory. (English summary) **99m:28001**
Filter, Wolfgang *see* **Constantinescu, Corneliu; et al., 99m:28001**
Goffman, Casper (*with* Nishiura, Togo; Waterman, Daniel) ★ Homeomorphisms in analysis. (English summary) **99b:26002**
Nishiura, Togo *see* **Goffman, Casper; et al., 99b:26002**
(Sontag, Alexia) *see* **Constantinescu, Corneliu; et al., 99m:28001**
Waterman, Daniel *see* **Goffman, Casper; et al., 99b:26002**
Weber, Karl *see* **Constantinescu, Corneliu; et al., 99m:28001**

28–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 28–03

Marcus, Solomon Stoilow's work in real analysis: its significance and its impact. (*see* **99h:00035**)
(Stoilow, Simion) *see* **Marcus, Solomon, (99h:00035)**

28–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 28–06

(Mesiar, Radko) *see* **Fuzzy measures and integrals, 99k:00021**
(Pap, Endre) *see* **Fuzzy measures and integrals, 99k:00021**

Items listed otherwise than by author

Fascicule de probabilités ★ Fascicule de probabilités. (French) [Issue on probability theory] **99d:60004**
Fuzzy measures and integrals ★ Fuzzy measures and integrals. **99k:00021**
Issue on probability theory ★ Fascicule de probabilités. (French) [Issue on probability theory] **99d:60004**
Special Issue:
Fuzzy measures and integrals ★ Fuzzy measures and integrals. **99k:00021**

28Axx Classical measure theory

Items with secondary classifications in 28Axx

Dzagnidze, O. P. Differentiability of the indefinite double Lebesgue integral. (Russian. English and Georgian summaries)

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 04A15, 26A21, 54H05]

Abian, Alexander (*with* Kemp, Paula) A special partition of the reals into nonmeasurable subsets. (English summary) **99k:28002**
— (*with* Hentzel, Irvin Roy) Cantor ternary set and measurability of Hamel bases. (English summary) **99b:28001**
Balcerzak, Marek (*with* Peredko, Joanna) Descriptive character of sets of density and $\mathcal{I}$-density points. (English summary) **99e:28002**
— (*with* Peredko, Joanna) One-to-one Borel selection theorems. (English summary) **99m:28003**
Basu, Sanjib[1] Generalization of a theorem of S. Kurepa and its category analogue. (English summary) **99a:28001**
— On sets with property of Baire in certain T_3-topological groups. (English summary) **99d:28002**
— Category analogues of two theorems of Steinhaus. **99k:28003**
Bhaskara Rao, K. P. S. *see* **Shortt, Rae Michael, 99d:28004**
Burke, Maxim R. (*with* Ciesielski, Krzysztof[2]) Sets on which measurable functions are determined by their range. (English summary) **99i:28004**
Ciesielski, Krzysztof[2] *see* **Burke, Maxim R., 99i:28004**
Crnjac, Miljenko A multidimensional generalization of the Steinhaus theorem. (English and Croatian summaries) **99f:28001**
Cruz-Sampedro, J. (*with* Tetlalmatzi Montiel, M.) Does there exist a countable infinite sigma-algebra? (Spanish) **99m:28004**
Ganesa Moorthy, C. (*with* Vimala, S.) A problem of V. K. Srinivasan on Lebesgue-Stieltjes measurable sets. (English summary) **99m:28005**
Ganguly, D. K. (*with* Majumdar, Madhabendu) Some results on projection of planar sets. (English summary) **99j:28001**
— (*with* Majumdar, Madhabendu) On a theorem of Ruziewicz. **99c:28002**
Hentzel, Irvin Roy *see* **Abian, Alexander, 99b:28001**
Kemp, Paula *see* **Abian, Alexander, 99k:28002**
Kharazishvili, A. B. On almost invariant subsets of the real line. (English and Polish summaries) **99a:28002**
— Sup-measurable and weakly sup-measurable mappings in the theory of ordinary differential equations. (English summary) **99e:28003**
— On countably generated invariant σ-algebras which do not admit measure type functionals. (English summary) **99b:28002**
Libicka, Inga (*with* Szkopińska, Bożena) On directional $\mathcal{I}_1$-density points. **99d:28003**
Majumdar, Madhabendu *see* **Ganguly, D. K., 99c:28002** *and* **99j:28001**
Miller, Harry I. (*with* Schnitzer, Franz Josef; Wyzinski, Henry L.) On a result of M. Kuczma. (English summary) **99c:28003**
Pepo, Burbuqe Properties of generalized Cantor sets. (English summary) **99c:28004**
Peredko, Joanna *see* **Balcerzak, Marek, 99e:28002** *and* **99m:28003**
Piccinini, Laurent Convergence of nonmonotone sequence of sub-σ-fields and convergence of associated subspaces $L^p(\mathcal{B}_n)$ ($p \in [1, +\infty]$). (English summary) **99m:28006**
Schnitzer, Franz Josef *see* **Miller, Harry I.; et al., 99c:28003**
Shortt, Rae Michael (*with* Bhaskara Rao, K. P. S.) Borel spaces. II. **99d:28004**
Szkopińska, Bożena *see* **Libicka, Inga, 99d:28003**
Tetlalmatzi Montiel, M. *see* **Cruz-Sampedro, J., 99m:28004**
Vimala, S. *see* **Ganesa Moorthy, C., 99m:28005**
Wyzinski, Henry L. *see* **Miller, Harry I.; et al., 99c:28003**

Items with secondary classifications in 28A05

Balibrea Gallego, Francisco (*with* La Paz, Claudio) Cantor sets as ω-limits in discrete dynamical systems. (Spanish. Spanish summary) **99d:26006**
Bodnariu, Mircea A new construction of Lebesgue-Stieltjes measure. (English summary) **99m:28007**
Chaber, J. (*with* Gruenhage, Gary; Pol, Roman) On Souslin sets and embeddings in integer-valued function spaces on ω_1. (English summary) **99f:54046**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) Ideal resolvability. (English summary) (*see* **99a:54002**)
Drewnowski, Lech (*with* Wnuk, Witold) Some Baire category results for measures with "big" ranges. **99j:28009**
Ganster, Maximilian *see* **Dontchev, Julian; et al., (99a:54002)**
Gruenhage, Gary *see* **Chaber, J.; et al., 99f:54046**
Kharazishvili, A. B. ★ Applications of point set theory in real analysis. (English summary) **99c:28001**
Künzi, Hans-Peter A. (*with* Wajch, Eliza) On σ-discrete Borel mappings via quasi-metrics. (English summary) **99i:54036**
La Paz, Claudio *see* **Balibrea Gallego, Francisco, 99d:26006**
Liu, Yian-Kui (*with* Zhang, Guang-Quan) On the completeness of fuzzy measure-space. (English summary) **99k:28026**
Mauldin, R. Daniel On sets which meet each line in exactly two points. (English summary) **99f:28010**
Plaza S., Sergio (*with* Vera V., Jaime) Differentiability of p-central Cantor sets. (English summary) **99b:58155**
Pol, Roman *see* **Chaber, J.; et al., 99f:54046**
Rose, David Alon *see* **Dontchev, Julian; et al., (99a:54002)**
Rusu, Dănuţ Density-type topologies. **99c:26003**
Srivastava, S. M. ★ A course on Borel sets. (English summary) **99d:04002**
Vera V., Jaime *see* **Plaza S., Sergio, 99b:58155**
Wajch, Eliza *see* **Künzi, Hans-Peter A., 99i:54036**
Wnuk, Witold *see* **Drewnowski, Lech, 99j:28009**
Wu, Jang-Mei Doubling measures with different bases. **99e:28005**

Zhang, Guang-Quan *see* **Liu, Yian-Kui, 99k:28026**

28A10 Real- or complex-valued set functions

Bell, Wayne C. (*with* Hagood, John W.) Completeness of $\mathscr{L}^p$ spaces and Radon-Nikodym theorems for unbounded finitely additive measures. **99f:28002**
Bhaskara Rao, K. P. S. *see* **D'Aniello, E.; et al., 99h:28002**
D'Aniello, E. (*with* Bhaskara Rao, K. P. S.; Shortt, Rae Michael) A Stone space approach to the existence of bounded common extensions. (English summary) **99h:28002**
Drasny, Gábor No b-concentrated measures whenever $1 < b \leq 2$. (English summary) **99i:28005**
Hagood, John W. *see* **Bell, Wayne C., 99f:28002**
Shortt, Rae Michael *see* **D'Aniello, E.; et al., 99h:28002**

Items with secondary classifications in 28A10

Knight, John E. Finitely additive τ-smooth measures and the Wallman space. (English summary) **99c:28038**
Sukiasyan, G. S. Finitely-additive functionals on a plane. (Russian. English and Russian summaries) **99h:52008**

28A12 Contents, measures, outer measures, capacities

Basaeva, E. K. An infinitesimal local optimum of a set function. (Russian. Russian summary) **99c:28005**
Basu, C. K. *see* **Ganguly, Sobhakar; et al., 99g:28003**
Bodnariu, Mircea A new construction of Lebesgue-Stieltjes measure. (English summary) **99m:28007**
Brown, Gavin[1] (*with* Yin, Qinghe) Inequalities arising from measure theory. (English summary) **99g:28002**
Chentsov, A. G. (*with* Serov, V. P.) Representation for some set-theoretic limits in the class of two-valued finitely additive measures. (English summary) **99c:28006**
Chkoniya, T. G. A remark on the logarithmic derivative of a measure. (Russian. English and Georgian summaries)
Dijkstra, Jan J. (*with* van Mill, Jan) Projections of planar Cantor sets in potential theory. **99d:28005**
Ganguly, Sobhakar (*with* Basu, C. K.; Sinha Roy, S.) A new regular measure on a topological space. II. (English summary) **99g:28003**
Grigorian, Armen (*with* Szapiel, Wojciech) Extreme points in some sets of complex measures. (English and Polish summaries) **99c:28007**
Hatano, Kaoru Is a net measure an outer measure? (English summary) **99c:28008**
Hejduk, Jacek Some properties of the density topology with respect to an extension of the Lebesgue measure. (English summary) **99j:28002**
Kharazishvili, A. B. On nonseparable invariant measures with the uniqueness property. (Russian. English and Georgian summaries) **99f:28003**
Kirtadze, A. P. (*with* Pantsulaya, G. R.) On uniquely definable extensions of invariant measures in the space $\mathbf{R}^N$. (Russian. English and Georgian summaries)
Knight, John E. Some remarks concerning finitely subadditive outer measures with applications. (English summary) **99h:28003**
Luukkainen, Jouni (*with* Saksman, Eero) Every complete doubling metric space carries a doubling measure. (English summary) **99c:28009**
van Mill, Jan *see* **Dijkstra, Jan J., 99d:28005**
Mycielski, Jan Non-amenable groups with amenable-action and some paradoxical decompositions in the plane. **99e:28004**
Norberg, Tommy (*with* Vervaat, Wim) Capacities on non-Hausdorff spaces. (English summary) **99f:28004**
O'Brien, George L. (*with* Watson, W. Stephen) Relative compactness for capacities, measures, upper semicontinuous functions and closed sets. (English summary) **99m:28008**
Pantsulaya, G. R. Density points and invariant extensions of the Lebesgue measure. (Russian. English and Georgian summaries)
— *see also* **Kirtadze, A. P.**
Pap, Endre The continuity of the null-additive fuzzy measures. (English summary) **99m:28009**
Pfeffer, Washek F. Comparing variations of charges. (English summary) **99b:28003**
Plachky, Detlef Characterization of discreteness of measures by a property of unique extension. (English summary) **99k:28004**
Ponnley, James On lattice associated outer measures and applications to smoothness conditions. (English summary) **99g:28004**
Saksman, Eero *see* **Luukkainen, Jouni, 99c:28009**
Serov, V. P. *see* **Chentsov, A. G., 99c:28006**
Sinha Roy, S. *see* **Ganguly, Sobhakar; et al., 99g:28003**
Szapiel, Wojciech *see* **Grigorian, Armen, 99c:28007**
Thomson, Brian S. σ-finite Borel measures on the real line. (English summary) **99f:28005**
Vervaat, Wim *see* **Norberg, Tommy, 99f:28004**
Watson, W. Stephen *see* **O'Brien, George L., 99m:28008**
Wu, Jang-Mei Doubling measures with different bases. **99e:28005**
Yin, Qinghe *see* **Brown, Gavin[1], 99g:28002**
Zhai, Bin Some problems on measures of sets. (Chinese. English and Chinese summaries) **99h:28004**

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Baddeley, Adrian (*with* Molchanov, Ilya S.) On the expected measure of a random set. (English summary) **99k:60018**
Das, Pratulananda *see* **Lahiri, B. K., 99f:28020**
Dellacherie, C. (*with* Iwanik, A.) Sous-mesures symétriques sur un ensemble fini. [Symmetric submeasures on a finite set] **99i:28017**
Du, Wen *see* **Zhang, Qiang[2]; et al., 99k:28030**
Ganesa Moorthy, C. (*with* Vimala, S.) A problem of V. K. Srinivasan on Lebesgue-Stieltjes measurable sets. (English summary) **99m:28005**
Heurteaux, Yanick Estimations de la dimension inférieure et de la dimension supérieure des mesures. (English and French summaries) [Estimates of the lower and upper dimensions of measures] **99g:28013**
Itzkowitz, Gerald L. Pseudocompactness, measurability, and category in compact groups. (English summary) **99b:54061**
Iwanik, A. *see* **Dellacherie, C., 99i:28017**
Joyce, H. A space on which diameter-type packing measure is not Borel regular. (English summary) **99j:28007**
Khrennikov, Andrei p-adic valued probability measures. (English summary) **99e:46103**
Knight, John E. Finitely additive τ-smooth measures and the Wallman space. (English summary) **99c:28038**
Koshevoĭ, G. A. Distributive lattices and products of capacities. **99i:06011**
Lahiri, B. K. (*with* Das, Pratulananda) Measures in bitopological spaces. II. (English summary) **99f:28020**
Maitra, Ashok P. (*with* Sudderth, William D.) ★ Discrete gambling and stochastic games. (English summary) **99c:60091**
Molchanov, Ilya S. *see* **Baddeley, Adrian, 99k:60018**
Nowik, Andrzej (*with* Scheepers, Marion; Weiss, Tomasz) The algebraic sum of sets of real numbers with strong measure zero sets. (English summary) **99c:54049**
Plaza S., Sergio (*with* Vera V., Jaime) Differentiability of p-central Cantor sets. (English summary) **99b:58155**
Savel'ev, L. Ya. Spaces with measures. (Russian) **99d:28023**
Scheepers, Marion *see* **Nowik, Andrzej; et al., 99c:54049**
Skala, Heinz J. On a representation theorem of Schmeidler. (English summary) **99a:90074**
Solecki, Sławomir Decomposing Borel sets and functions and the structure of Baire class 1 functions. (English summary) **99h:26010**
Stratigos, P. D. Relationships between various outer measures induced by lattice measures. (English summary) **99h:28010**
Sudderth, William D. *see* **Maitra, Ashok P., 99c:60091**
Vera V., Jaime *see* **Plaza S., Sergio, 99b:58155**
Vimala, S. *see* **Ganesa Moorthy, C., 99m:28005**
Weiss, Tomasz *see* **Nowik, Andrzej; et al., 99c:54049**
Xu, Yang *see* **Zhang, Qiang[2]; et al., 99k:28030**
Zhang, Qiang[2] (*with* Xu, Yang; Du, Wen) Lebesgue decomposition theorem for σ-finite signed fuzzy measures. (English summary) **99k:28030**

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Arutyunyants, G. V. On the local structure of the Besicovitch construction. (Russian) **99g:28005**
Bongiorno, Benedetto (*with* Di Piazza, L.; Preiss, David) Infinite variation and derivatives in $\mathbf{R}^m$. (English summary) **99j:28003**
Di Piazza, L. *see* **Bongiorno, Benedetto; et al., 99j:28003**
Ene, Vasile Equivalent forms of a result of Malý, Preiss and Zajíček. (English summary) **99j:28004**
Fukuda, Ryoji (*with* Satô, Hiroshi[1]) Φ-density theorem on a metric space. **99c:28010**
Lepsveridze, G. L. A note on the divergence speed of rectangular averages of functions from $L\Phi(L)(\mathbf{R}^2)$. (English summary)
— To the problem of a strong differentiability of integrals along different directions. (English summary) **99e:28006**
Marková-Stupňanová, Andrea A note on g-derivative and g-integral. (English summary) **99a:28003**
Oniani, G. T. On the differentiability of integrals along different frames. (English summary)
— On the differentiability of integrals with respect to bases $B(\theta)$. (English summary)
Preiss, David *see* **Bongiorno, Benedetto; et al., 99j:28003**
Satô, Hiroshi[1] *see* **Fukuda, Ryoji, 99c:28010**

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Marková-Stupňanová, Andrea (*with* Riečan, Beloslav) On the double g-integral. (English summary) **99a:28021**
Oniani, G. G. On the differentiability of integrals with respect to the bases $B_2(\theta)$. (English summary) **99h:26019**
Riečan, Beloslav *see* **Marková-Stupňanová, Andrea, 99a:28021**
Stepršns, Juris Decomposing Euclidean space with a small number of smooth sets. (English summary) **99f:04002**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Alvarez Marín, Luz del Carmen *see* **Fernández Muñiz, José L., 99h:28006**
Araki, Makoto *see* **Nilzeki, Syôzô, 99c:28011**
Chakrabarti, Sadasiv *see* **Lahiri, B. K., 99a:28004**
Csörnyei, Marianna On the non-existence of certain bounded linear projections. (English summary) **99b:28004**
Elalaoui-Talibi, Hussain A remark on graphs of Marczewski measurable functions. (English summary) **99d:28006**
Faina, Loris Topological properties of equimeasurable functions. (English summary) **99i:28006**
— Interpolation of level sets for equimeasurable functions. (English summary) **99h:28005**
Fernández Muñiz, José L. (*with* Alvarez Marín, Luz del Carmen) The R_F-convergence and theorems of Banach-Steinhaus type. (English summary) **99h:28006**
Keleti, Tamás Periodic L_p functions with L_q difference functions. (English summary) **99h:28007**
— Difference functions of periodic measurable functions. (English summary) **99e:28007**
Klimkin, V. M. (*with* Sribnaya, T. A.) Convergence of a sequence of weakly regular set functions. (Russian. Russian summary) **99m:28010**
Lahiri, B. K. (*with* Chakrabarti, Sadasiv) Approximately continuous functions in a measure space. (English summary) **99a:28004**

Letta, G. Convergence stable et applications. [Stable convergence and applications] **99g:28006**
Niizeki, Syôzô (*with* Araki, Makoto) On a convergence theorem in L^p-space and some of its applications. **99c:28011**
Salvati, Simonetta Convergence theorems in noncommutative measure theory. (Italian)
Sribnaya, T. A. *see* **Klimkin, V. M., 99m:28010**
Zsilinszky, László Superporosity in a class of non-normable spaces. (English summary) **99b:28005**

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Akhobadze, T. On some analogies of Riemann-Lebesgue theorem for functions of multiple variables. II. (English summary)
Alonso, Alberto (*with* Brambila-Paz, Fernando) L^p-continuity of conditional expectations. (English summary) **99d:60047**
Bonanno, Gabriele On a class of functionals whose local minima are global. (English summary) **99b:49005**
Brambila-Paz, Fernando *see* **Alonso, Alberto, 99d:60047**
Bugeaud, Yann (*with* Weber, Michel Jean Georges) Examples and counterexamples for Riemann sums. (English summary) **99h:28040**
Burke, Maxim R. (*with* Ciesielski, Krzysztof[2]) Sets on which measurable functions are determined by their range. (English summary) **99i:28004**
Burzyk, Józef (*with* Kamiński, Andrzej) Operations on convergences. (English summary) **99i:54006**
Cater, F. S. On derivatives vanishing almost everywhere on certain sets. (English summary) **99g:26010**
Ciesielski, Krzysztof[2] *see* **Burke, Maxim R., 99i:28004**
Ene, Vasile On the decomposition theorems of Lebesgue and Jordan. (English summary) **99g:26022**
Felgenhauer, U. (*with* Wagner, Marcus) Essential properties of L^∞-functions. (English summary) **99c:26009**
Járai, Antal (*with* Sander, Wolfgang) A regularity theorem in information theory. (English summary) **99c:39029**
Kamiński, Andrzej *see* **Burzyk, Józef, 99i:54006**
Kawabe, Jun Weak convergence of tensor products of vector measures. (Japanese) (*see* **99i:00029**)
Klement, Erich Peter (*with* Navara, Mirko) A characterization of tribes with respect to the Łukasiewicz t-norm. (English summary) **99c:28060**
Lambert, Alan Measurable majorants in L^1. **99g:28031**
Navara, Mirko *see* **Klement, Erich Peter, 99c:28060**
Rüschendorf, Ludger (*with* Thomsen, Wolfgang) Closedness of sum spaces and the generalized Schrödinger problem. (Russian summary) **99j:60044**
Sander, Wolfgang *see* **Járai, Antal, 99c:39029**
Thomsen, Wolfgang *see* **Rüschendorf, Ludger, 99j:60044**
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Weber, Michel Jean Georges *see* **Bugeaud, Yann, 99h:28040**
Xu, Dongfu The LSRS property and the convergence theorem of Henstock-Kurzweil integral. (English summary) **99j:26011**

28A25 Integration with respect to measures and other set functions

Edalat, Abbas (*with* Negri, Sara) The generalized Riemann integral on locally compact spaces. (English summary) **99k:28005**
Negri, Sara *see* **Edalat, Abbas, 99k:28005**
Vraciu, George Intégrales Hellinger pour les fonctions de l'ensemble. (English and French summaries) [Hellinger integrals for set functions] (*see* **99e:53001**)

Items with secondary classifications in 28A25

Giner, E. On the Clarke subdifferential of an integral functional on L_p, $1 \le p < \infty$. (English summary) **99f:49017**
Grekas, S. (*with* Mercourakis, S.) On the measure-theoretic structure of compact groups. (English summary) **99b:22007**
Marková-Stupňanová, Andrea A note on g-derivative and g-integral. (English summary) **99a:28003**
Mercourakis, S. *see* **Grekas, S., 99b:22007**
Priestley, H. A. ★ Introduction to integration. (English summary) **99d:28001**
Yoo, Yoon Jae Weighted weak type estimates for certain maximal operators. (English summary) **99m:42034**

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Alibert, J.-J. (*with* Bouchitté, Guy) Non-uniform integrability and generalized Young measures. (English summary) **99i:28007**
Banakh, T. O. Topological classification of spaces of probability measures on projective spaces. (Russian) **99i:28008**
Bouchitté, Guy *see* **Alibert, J.-J., 99i:28007**
Medgalchi, A. R. $M(X)^{**}$ determines X. (English summary) **99f:28006**
Panchapagesan, T. V. Baire and σ-Borel characterizations of weakly compact sets in $M(T)$. (English summary) **99h:28008**
Xi, Li Feng Necessary and sufficient conditions for completeness of the Hutchison metric. (Chinese. English and Chinese summaries) **99m:28011**

Items with secondary classifications in 28A33

Castaing, Charles (*with* Valadier, Michel) Weak convergence using Young measures. (English summary) **99m:60010**
Chakraborty, Santanu (*with* Rao, B. V. Raja) Completeness of Bhattacharya metric on the space of probabilities. (English summary) **99i:60026**
Delbaen, Freddy A remark on Slutsky's theorem. **99k:60007**
Kalenda, Ondřej New examples of hereditarily t-Baire spaces. (English summary) **99e:54021**
Lasserre, Jean B. Weak convergences of probability measures: a uniform principle. (English summary) **99a:60004**
Rao, B. V. Raja *see* **Chakraborty, Santanu, 99i:60026**
Stratigos, P. D. Relationships between various outer measures induced by lattice measures. (English summary) **99h:28010**
Valadier, Michel *see* **Castaing, Charles, 99m:60010**

28A35 Measures and integrals in product spaces

Akhobadze, T. On some analogies of Riemann-Lebesgue theorem for functions of multiple variables. II. (English summary)
Grekas, S. *see* **Gryllakis, C., 99m:28012**
Gryllakis, C. (*with* Grekas, S.) On products of Radon measures. (English summary) **99m:28012**
Hirshberg, A. (*with* Shortt, Rae Michael) Strassen's theorem for group-valued charges. (English summary) **99i:28009**
Kellerer, Hans G. Representation of Markov kernels by random mappings under order conditions. (English summary) **99f:28007**
Kim, Byung Moo Example and counterexamples in double integral and iterated integral.
Rachev, Svetlozar T. (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. I. (English summary) **99k:28006**
— (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. II. (English summary) **99k:28007**
Ramachandran, D. (*with* Rüschendorf, Ludger) Duality theorems for assignments with upper bounds. **99h:28009**
Rüschendorf, Ludger *see* **Ramachandran, D., 99h:28009; Rachev, Svetlozar T., 99k:28006** *and* **99k:28007**
Shortt, Rae Michael *see* **Hirshberg, A., 99i:28009**
Štěpán, Josef How to construct a two-dimensional random vector with a given conditional structure. (English summary) **99a:28005**
Uglanov, A. V. Four counterexamples to the Fubini theorem. (Russian. Russian summary) **99e:28008**

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Bobkov, S. G. (*with* Ledoux, Michel) On modified logarithmic Sobolev inequalities for Bernoulli and Poisson measures. (English summary) **99e:60051**
Cho, Sung-Jin (*with* Lee, Byung Soo; Lee, Gue Myung; Kim, Do Sang; Song, Yeoul-Ouk) Fubini theorem for generalized fuzzy number-valued integrals. (English summary)
Dooley, Anthony H. (*with* Klemeš, Ivo; Quas, Anthony N.) Product and Markov measures of type III. (English summary) **99h:28039**
Gangbo, Wilfrid The Monge mass transfer problem and its applications. (English summary) **99k:49092**
Grekas, S. (*with* Mercourakis, S.) On the measure-theoretic structure of compact groups. (English summary) **99b:22007**
Honda, Aoi (*with* Okazaki, Yoshiaki) The equivalence of the Rademacher translations of an infinite product measure. **99c:60087**
Kim, Do Sang *see* **Cho, Sung-Jin; et al.**
Klemeš, Ivo *see* **Dooley, Anthony H.; et al., 99h:28039**
Kwon, Ern Gun (*with* Lee, Sang Keun; Shon, Kwang Ho) A Rado type refinement of Minkowski's and Hölder's inequality. (English summary) **99m:26030**
Ledoux, Michel *see* **Bobkov, S. G., 99e:60051**
Lee, Byung Soo *see* **Cho, Sung-Jin; et al.**
Lee, Gue Myung *see* **Cho, Sung-Jin; et al.**
Lee, Sang Keun *see* **Kwon, Ern Gun; et al., 99m:26030**
Mercourakis, S. *see* **Grekas, S., 99b:22007**
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Quas, Anthony N. *see* **Dooley, Anthony H.; et al., 99h:28039**
Rüschendorf, Ludger (*with* Thomsen, Wolfgang) Closedness of sum spaces and the generalized Schrödinger problem. (Russian summary) **99j:60044**
Shon, Kwang Ho *see* **Kwon, Ern Gun; et al., 99m:26030**
Song, Yeoul-Ouk *see* **Cho, Sung-Jin; et al.**
Thomsen, Wolfgang *see* **Rüschendorf, Ludger, 99j:60044**

28A50 Integration and disintegration of measures

Dubins, Lester E. (*with* Prikry, Karel) On the existence of disintegrations. (English summary) **99m:28013**
Prikry, Karel *see* **Dubins, Lester E., 99m:28013**

Items with secondary classifications in 28A50

Skvortsov, V. A. On the variational measure generated by the indefinite Lebesgue integral. (Russian. Russian summary) **99e:26009**
Wendt, Michael A. Change of base for measure spaces. (English summary) **99f:18004**

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Avallone, Anna (*with* Lepellere, Maria Antonietta) Modular functions: uniform boundedness and compactness. (English summary) **99d:28007**
Balcar, Bohuslav (*with* Glówczyński, Wiesław; Jech, Thomas) The sequential topology on complete Boolean algebras. (English summary) **99b:28006**
Glówczyński, Wiesław *see* **Balcar, Bohuslav; et al., 99b:28006**
Jech, Thomas *see* **Balcar, Bohuslav; et al., 99b:28006**
Lepellere, Maria Antonietta *see* **Avallone, Anna, 99d:28007**
Popa, Dumitru On a Boolean algebras which have the Vitali-Hahn-Saks property. (English summary) **99d:28008**
Stratigos, P. D. Relationships between various outer measures induced by lattice measures. (English summary) **99h:28010**

Yan, Catherine Huafei Decomposition of Lebesgue spaces. **99h:28011**

Items with secondary classifications in 28A60

(Chovanec, Ferdinand) *see* **Riečan, Beloslav, 99e:28001**
De Lucia, Paolo (*with* De Simone, Anna) Measures on a weakly orthocomplete OMP with a filtering sub-OMP. (English summary) **99k:03047**
De Simone, Anna *see* **De Lucia, Paolo, 99k:03047**
Friedgut, Ehud Boolean functions with low average sensitivity depend on few coordinates. (English summary) **99g:28021**
(Kirchheimová, Hana) *see* **Riečan, Beloslav, 99e:28001**
(Kôpka, František) *see* **Riečan, Beloslav, 99e:28001**
Neubrunn, Tibor *see* **Riečan, Beloslav, 99e:28001**
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Integral, measure, and ordering. (English summary) **99e:28001**
(Riečanová, Zdenka) *see* **Riečan, Beloslav, 99e:28001**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

Buckley, Stephen M. Strong doubling conditions. (English summary) **99g:28007**
Buczolich, Zoltán (*with* Pfeffer, Washek F.) When absolutely continuous implies σ-finite. (English summary) **99i:28010**
— (*with* Pfeffer, Washek F.) On absolute continuity. **99i:28011**
— Lipschitz images with fractal boundaries and their small surface wrapping. (English summary) **99b:28007**
Das, Manav Binary expansions and multifractals. (English summary) **99g:28008**
— Local properties of self-similar measures. **99c:28012**
David, Guy (*with* Semmes, Stephen) Quasiminimal surfaces of codimension 1 and John domains. (English summary) **99i:28012**
Feng, Dejun (*with* Wu, Jun[2]) Category and dimension of compact subsets of $\mathbf{R}^n$. **99d:28009**
Genyuk, Julia A typical measure typically has no local dimension. (English summary) **99g:28009**
Heinonen, Juha (*with* Semmes, Stephen) Thirty-three yes or no questions about mappings, measures, and metrics. **99h:28012**
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Orthogonal harmonic analysis of fractal measures. (English summary) **99b:28008**
Joyce, H. Concerning the problem of subsets of finite positive packing measure. (English summary) **99c:28013**
Lau, Ka-Sing (*with* Ngai, Sze-Man) L^q-spectrum of the Bernoulli convolution associated with the golden ratio. (English summary) **99f:28008**
Mattila, Pertti Rectifiability, analytic capacity, and singular integrals. (English summary) **99g:28010**
Mörters, Peter Average densities and linear rectifiability of measures. (English summary) **99c:28014**
— (*with* Preiss, David) Tangent measure distributions of fractal measures. (English summary) **99i:28013**
Ngai, Sze-Man *see* **Lau, Ka-Sing, 99f:28008**
Pankov, M. A. Projections of k-dimensional subsets of $\mathbf{R}^n$ onto k-dimensional planes. (English, Russian and Ukrainian summaries) **99g:28011**
Pedersen, Steen *see* **Jorgensen, Palle E. T., 99b:28008**
Pfeffer, Washek F. *see* **Buczolich, Zoltán, 99i:28010** *and* **99i:28011**
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Semmes, Stephen *see* **Heinonen, Juha, 99h:28012** *and* **David, Guy, 99i:28012**
Toro, Tatiana Doubling and flatness: geometry of measures. **99d:28010**
White, Brian Cabell A new proof of Federer's structure theorem for k-dimensional subsets of $\mathbf{R}^N$. (English summary) **99c:28015**
Wu, Jun[2] *see* **Feng, Dejun, 99d:28009**

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Bellettini, Giovanni (*with* Coscia, A.; Dal Maso, Gianni) Compactness and lower semicontinuity properties in SBD(Ω). **99e:49011**
Bongiorno, Benedetto (*with* Di Piazza, L.; Preiss, David) Infinite variation and derivatives in $\mathbf{R}^m$. (English summary) **99j:28003**
Buczolich, Zoltán Functions of two variables with large tangent plane sets. (English summary) **99b:26017**
Coscia, A. *see* **Bellettini, Giovanni; et al., 99e:49011**
Dal Maso, Gianni *see* **Bellettini, Giovanni; et al., 99e:49011**
Di Piazza, L. *see* **Bongiorno, Benedetto; et al., 99j:28003**
Edgar, Gerald A. ★ Integral, probability, and fractal measures. **99c:28024**
Fleury, Gérard En arpentant les arcs. [Spanning the arcs] **99k:26006**
Fukuda, Ryoji (*with* Satô, Hiroshi[1]) Φ-density theorem on a metric space. **99c:28010**
Harrison, Jenny rth order conditionally convergent series of fractal domains. (English summary) **99h:28014**
Hug, Daniel Absolute continuity for curvature measures of convex sets. I. (English summary) **99j:52002**
Joyce, H. A relationship between packing and topological dimensions. (English summary) **99h:54050**
Luukkainen, Jouni Assouad dimension: antifractal metrization, porous sets, and homogeneous measures. (English summary) **99m:54023**
Matoušková, Eva The Banach-Saks property and Haar null sets. (English summary) **99g:46013**
Mattila, Pertti Singular integrals, analytic capacity and rectifiability. (English summary) **99e:42026**
Mörters, Peter The average density of the path of planar Brownian motion. (English summary) **99d:60092**
O'Neil, Toby C. The multifractal spectrum of quasi-self-similar measures. (English summary) **99c:28026**
Preiss, David *see* **Bongiorno, Benedetto; et al., 99j:28003**
Ruzsa, Imre Z. The Brunn-Minkowski inequality and nonconvex sets. (English summary) **99b:52016**
Satô, Hiroshi[1] *see* **Fukuda, Ryoji, 99c:28010**
Strichartz, Robert S. Isoperimetric estimates on Sierpinski gasket type fractals. (English summary) **99h:28021**

28A78 Hausdorff measures

Ayer, Elizabeth (*with* Strichartz, Robert S.) Exact Hausdorff measure and intervals of maximum density for Cantor sets. (English summary) **99m:28014**
Chen, Er Cai (*with* Xiong, Jin Cheng) The pointwise dimension of a self-similar measure. (Chinese. Chinese summary)
Cooper, Michael J. P. Dimension, measure and infinite Bernoulli convolutions. **99h:28013**
Deng, Guantie (*with* Zhang, Yuming; Huang, Zheng Hai) Bouligand dimension of fractal curve of almost periodic series. (English summary) **99e:28009**
Dijkstra, Jan J. (*with* Kunen, Kenneth; van Mill, Jan) Hausdorff measures and two point set extensions. (English summary) **99e:28010**
Èiderman, V. Ya. Hausdorff measure and capacity associated with Cauchy potentials. (Russian. Russian summary) **99m:28015**
Falconer, Kenneth J. (*with* Järvenpää, Maarit) Packing dimensions of sections of sets. (English summary) **99g:28012**
Fan, Ai Hua Gibbs measures and some related topics. (English summary) **99c:28016**
Friedland, Shmuel Computing the Hausdorff dimension of subshifts using matrices. (English summary) **99c:28017**
Ghamsari, Manouchehr (*with* Herron, David A.) Higher dimensional Ahlfors regular sets and chordarc curves in $\mathbf{R}^n$. **99m:28016**
Harrison, Jenny rth order conditionally convergent series of fractal domains. (English summary) **99h:28014**
Herron, David A. *see* **Ghamsari, Manouchehr, 99m:28016**
Heurteaux, Yanick Estimations de la dimension inférieure et de la dimension supérieure des mesures. (English and French summaries) [Estimates of the lower and upper dimensions of measures] **99g:28013**
Huang, Zheng Hai *see* **Deng, Guantie; et al., 99e:28009**
Järvenpää, Maarit Packing dimension, intersection measures, and isometries. (English summary) **99c:28018**
— (*with* Mattila, Pertti) Hausdorff and packing dimensions and sections of measures. (English summary) **99g:28014**
— *see also* **Falconer, Kenneth J., 99g:28012**
Kim, Tae Hee (*with* Lee, Hung Hwan) The nets and packing dimensions. (English summary) **99b:28009**
Kim, Tae Sik Hausdorff dimension of some sub-similar sets. (English summary) **99j:28005**
Krieg, Daniela (*with* Mörters, Peter) Tangent measure distributions of hyperbolic Cantor sets. (English summary) **99m:28017**
Kunen, Kenneth *see* **Dijkstra, Jan J.; et al., 99e:28010**
Lee, Hung Hwan *see* **Kim, Tae Hee, 99b:28009**
Li, Shao Lin *see* **Liu, Ying[1]**
Li, Wen Xia (*with* Xiao, Dongmei) The dimensions of self-similar sets. **99f:28009**
Liu, Ying[1] (*with* Li, Shao Lin) The Hausdorff dimension of fractal subsets and its projection properties in $\mathbf{Z}^d$. (Chinese. English and Chinese summaries)
Mattila, Pertti *see* **Järvenpää, Maarit, 99g:28014**
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Machta, Jonathan *see* **Greenlaw, Raymond, 99h:68075**
Massopust, Peter R. A multiwavelet based on piecewise C^1 fractal functions and related applications to differential equations. (English summary) **99j:65248**
Masuda, Kenshin The fractal dimension of the attractor of the logistic map with diffusion. **99d:58117**
Mattila, Pertti *see* **Järvenpää, Maarit, 99g:28014**
Mauldin, R. Daniel (*with* Urbański, Mariusz) Dimension and measures for a curvilinear Sierpinski gasket or Apollonian packing. (English summary) **99h:28015**
McMullen, Curtis T. Self-similarity of Siegel disks and Hausdorff dimension of Julia sets. **99f:58172**
Meyer, Yves *see* **Daoudi, K.; et al., 99f:26005**
Mironova, S. R. Singular integral equations on a countable set of closed nonrectifiable and fractal curves. (Russian) **99g:45003**
Molchan, G. M. Anomalies in multifractral formalism for local time of Brownian motion. (English summary) **99g:60134**
Morán, Manuel (*with* Rey, José-Manuel) Geometry of self-similar measures. (English summary) **99f:28011**
— (*with* Rey, José-Manuel) Singularity of self-similar measures with respect to Hausdorff measures. (English summary) **99c:28019**
Mörters, Peter (*with* Preiss, David) Tangent measure distributions of fractal measures. (English summary) **99i:28013**
— *see also* **Krieg, Daniela, 99m:28017**
Mosco, Umberto Lagrangian metrics on fractals. (English summary) **99a:31007**
Mukheimer, A. *see* **Siddiqi, A. H.; et al., (98i:00018)**
Murthy, C. A. (*with* Pittman, Jennifer) Multilayer perceptrons and fractals. (English summary) **99g:68175**
Myjak, Józef *see* **Lasota, Andrzej, 99a:47016**
Naert, A. *see* **Friedrich, Rudolf; et al., 99g:76069**
Naito, Koichiro Lower estimates of dimensions for quasi-periodic orbits. **99j:58187**
Ngai, Sze-Man *see* **Lau, Ka-Sing, 99f:28008**
Oide, Shin-ichi (*with* Hosokawa, Iwao; Yamamoto, Kiyoshi) Similar variables for passive scalar and joint multifractals. (Japanese) (*see* **99k:76004**)
Olivier, Eric Analyse multifractale de fonctions continues. (English and French summaries) [Multifractal analysis of continuous functions] **99h:58109**
Panagiotopoulos, Panagiotis D. (*with* Panagouli, O. K.) Fractal geometry in contact mechanics and numerical applications. (English summary) **99a:73113**
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Pankov, M. A. Projections of k-dimensional subsets of $\mathbf{R}^n$ onto k-dimensional planes. (English, Russian and Ukrainian summaries) **99g:28011**
Parisi, Jürgen *see* **Kittel, A.; et al., 99a:39052**
Pastor-Satorras, R. (*with* Wagensberg, J.) The maximum entropy principle and the nature of fractals. (English summary) **99a:82004**
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— *see also* **Acosta, Gabriel, 99d:58113**
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Plaza S., Sergio (*with* Vera V., Jaime) Differentiability of p-central Cantor sets. (English summary) **99b:58155**
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Previte, Joseph P. Graph substitutions. (English summary) **99h:58095**
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Raugi, Albert *see* **Conze, J.-P.; et al., 99a:52034**
Reitmann, V. *see* **Boichenko, V. A.; et al., 99d:58114**
Remes, Marko Hölder parametrizations of self-similar sets. **99b:28010**
Ren, Fu yao *see* **Yu, Zu-Guo; et al., 99a:82095**
Rey, José-Manuel *see* **Morán, Manuel, 99c:28019** *and* **99f:28011**
Rössler, Otto E. *see* **Kittel, A.; et al., 99a:39052**
Rubiano, Gustavo N. Fractals: the footprint of chaos. (Spanish) **99m:58133**
Rüschendorf, Ludger *see* **Hutchinson, John E., 99j:60019**
Rynne, Bryan P. The fractal dimension of quasi-periodic orbits. (English summary) **99k:58161**
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Sendov, Bl. Binary self-similar fractal functions. **99k:42066**
Sevcik, Carlos A procedure to estimate the fractal dimension of waveforms. (English summary)
Shieh, Narn-Rueih (*with* Taylor, S. James) Logarithmic multifractal spectrum of stable occupation measure. (English summary) **99g:60078**
Siddiqi, A. H. (*with* Ahmad, M. K.; Mukheimer, A.) Current developments in fractal image compression. (*see* **98i:00018**)
Skordev, Gencho S. *see* **Lange, Ehler; et al., 99f:11023**
Soardi, Paolo M. (*with* Weiland, David) Single wavelets in n-dimensions. (English summary) **99k:42067**
Song, Hyun-Jong (*with* Kang, Byung-Sik) On the symmetric Sierpinski gaskets. (English summary) **99g:58067**
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Strichartz, Robert S. *see* **Ayer, Elizabeth, 99m:28014**
Sun, Haijian (*with* Liu, Lin[1]; Guo, Aike) Iteration logistic map dynamics in the polar coordinates. (English summary) **99d:58125**
Sun, Hong Quan *see* **Xie, He Ping, 99g:65022**
Szarek, Tomasz Markov operators acting on Polish spaces. (English summary) **99a:47018**
Taylor, S. James *see* **Shieh, Narn-Rueih, 99g:60078**
Tosan, E. *see* **Zair, C. E., (99f:00017)**
Triebel, Hans ★ Fractals and spectra. **99b:46048**
Trotsenko, D. A. Fractal lines and quasiconformal mappings. (Russian. Russian summary) **99f:30037**
Urbański, Mariusz Geometry and ergodic theory of conformal non-recurrent dynamics. (English summary) **99j:58178**
— *see also* **Mauldin, R. Daniel, 99h:28015**
Vera V., Jaime *see* **Plaza S., Sergio, 99b:58155**
Wagensberg, J. *see* **Pastor-Satorras, R., 99a:82004**
Wang, He Yu An upper estimate of the Hausdorff measure of the Sierpinski gasket. (Chinese. English summary)
— Computer search for the upper estimation of Hausdorff measure of classical fractal sets. I. Analysis of coding technique for Sierpinski gasket as a typical example. (Chinese. English summary)
Wang, Jia Song *see* **Chen, Cun Bao**
Waymire, Edward C. (*with* Williams, Stanley Carl) Markov cascades. (English summary) **99k:60093**
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Williams, Stanley Carl *see* **Waymire, Edward C., 99k:60093**
Wu, Jun[2] *see* **Feng, Dejun, 99d:28009**
Xiao, Dongmei *see* **Li, Wen Xia, 99f:28009**
Xiao, Yimin Hausdorff-type measures of the sample paths of fractional Brownian motion. (English summary) **99h:60084**
Xie, He Ping (*with* Sun, Hong Quan) The theory of fractal interpolated surface and its applications. (Chinese. English and Chinese summaries) **99g:65022**
Yamamoto, Kiyoshi *see* **Oide, Shin-ichi; et al., (99k:76004)**
Yanovskiĭ, V. V. *see* **Bar'yakhtar, V. G., 99a:58112**
Yoon, Joung-Hahn *see* **Choi, Hyeong In; et al., 99k:53065**
Yu, Jing Hu The dimensions of finite measures on a probability space and their distribution. (Chinese. English and Chinese summaries) **99m:60009**
Yu, Zu-Guo (*with* Ren, Fu yao; Zhou, Ji[2]) Fractional integral associated to generalized cookie-cutter set and its physical interpretation. (English summary) **99a:82095**
Zähle, M. Fractional differentiation in the self-affine case. V. The local degree of differentiability. (English summary) **99a:26007**
Zair, C. E. (*with* Tosan, E.) Fractal geometric modeling in computer graphics. (English summary) (*see* **99f:00017**)
Zeitler, Herbert About a sculpture of St. George. (English summary) **99k:00017**
Zhang, Li-Xin On the fractal nature of increments of l^p-valued Gaussian processes. (English summary) **99a:60041**
Zhang, Ting Jie (*with* Li, Hai Tao; Qiu, Pei Zhang) Boundary value problems for a class of fourth-order difference equations and the generation of fractal surfaces. (Chinese. English and Chinese summaries) **99e:39054**
Zhang, Yuming *see* **Deng, Guantie; et al., 99e:28009**
Zhou, Ji[2] *see* **Yu, Zu-Guo; et al., 99a:82095**
Zhou, Zuoling The Hausdorff measure of the self-similar sets—the Koch curve. (English summary) **99f:28012**

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Chaos and fractals ★ Chaos and fractals. **99g:58086**

28A99 None of the above, but in this section

Dellacherie, C. (*with* Iwanik, A.) Sous-mesures symétriques sur un ensemble fini. [Symmetric submeasures on a finite set] **99i:28017**
Friedgut, Ehud Boolean functions with low average sensitivity depend on few coordinates. (English summary) **99g:28021**
Iwanik, A. *see* **Dellacherie, C., 99i:28017**

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Alvarez-Manilla, M. (*with* Edalat, Abbas; Saheb-Djahromi, N.) An extension result for continuous valuations. (English summary) (*see* **99i:00013**)
Bhaskara Rao, K. P. S. (*with* Shortt, Rae Michael) Weak cardinal algebras. (English summary) **99a:06021**
Chentsov, A. G. On the correct extension of a problem on the choice of a probability density with constraints on the system of expected values. (Russian) **99a:60118**
Ciesielski, Krzysztof[2] Set-theoretic real analysis. (English summary) **99k:03038**
Edalat, Abbas *see* **Alvarez-Manilla, M.; et al., (99i:00013)**
Evard, Jean-Claude (*with* Gauchman, Hillel) Steffensen type inequalities over general measure spaces. (English summary) **99c:26016**
Fedorchuk, V. V. The Suslin number of the functor of probability measures. (English summary) **99e:54001**
Foschini, Gerard J. Thoughts on Milnor. Comment on: "Fubini foiled: Katok's paradoxical example in measure theory" [Math. Intelligencer **19** (1997), no. 2, 30–32; MR 98g:28005] by J. Milnor. **99h:26013**
Gangbo, Wilfrid (*with* Święch, Andrzej) Optimal maps for the multidimensional Monge-Kantorovich problem. (English summary) **99f:49070**
Gauchman, Hillel *see* **Evard, Jean-Claude, 99c:26016**
Jonasson, Johan On positive random objects. (English summary) **99i:60006**
Jones, Martin L. A note on a cake cutting algorithm of Banach and Knaster. **99e:60012**
Kellerer, Hans G. Ambiguity in bounded moment problems. (English summary) **99i:44009**
Kesten, Harry Distinguishing and reconstructing sceneries from observations along random walk paths. (English summary) **99i:60141**

Marton, Katalin Measure concentration for a class of random processes. (English summary) **99g:60074**
Mendivil, Franklin A generalization of ifs with probabilities to infinitely many maps. (English summary) **99i:58095**
(Milnor, John) *see* **Foschini, Gerard J., 99h:26013**
Páles, Zsolt (*with* Zeidan, Vera) On the representation of certain bilinear forms on $C(T)$ and $L^\infty(T)$. (English summary) **99g:49016**
Pap, Endre Nikodým type theorems. (English summary) **99b:28026**
Popescu, Emil[2] An extension of Meyer's theorem concerning the subordination of sub-Markovian resolvents. **99j:31018**
Ray, Snigdha Some results of the functions related to the set C_k. (English summary) **99j:26004**
Ross, David A. Loeb measure and probability. **99d:28042**
Sadikova, R. Kh. A general class of inequalities with mixed means. (Russian. Russian summary) **99f:26037**
Saheb-Djahromi, N. *see* **Alvarez-Manilla, M.; et al., (99i:00013)**
Shortt, Rae Michael *see* **Bhaskara Rao, K. P. S., 99a:06021**
Święch, Andrzej *see* **Gangbo, Wilfrid, 99f:49070**
Tan, Hai Ou (*with* Xiao, Jie[1]) Two applications of generalized Carleson measures to meromorphic Besov-type spaces. (English summary) **99m:46087**
Terwijn, Sebastiaan A. (*with* Torenvliet, Leen) Arithmetical measure. (English summary) **99m:03085**
Torenvliet, Leen *see* **Terwijn, Sebastiaan A., 99m:03085**
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Separation axioms for some modifications of the core topology. **99m:54009**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 99m:54009**
Xiao, Jie[1] *see* **Tan, Hai Ou, 99m:46087**
Yan, Catherine Huafei Decomposition of Lebesgue spaces. **99h:28011**
Zajíček, Luděk Ordinary derivatives via symmetric derivatives and a Lipschitz condition via a symmetric Lipschitz condition. (English summary) **99h:26011**
Zeidan, Vera *see* **Páles, Zsolt, 99g:49016**

28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

Bhaskara Rao, K. P. S. *see* **D'Aniello, E.; et al., 99e:28018**
Bianchini, Stefano Extremal faces of the range of a vector measure and a theorem of Lyapunov. (English summary) **99m:28025**
Brooks, J. K. (*with* Candeloro, Domenico; Martellotti, A.) On finitely additive measures in nuclear spaces. (Italian summary) **99e:28017**
Candeloro, Domenico *see* **Brooks, J. K.; et al., 99e:28017**
Chakraborty, N. D. *see* **Jaker Ali, Sk., 99e:28019**
D'Aniello, E. (*with* Hirshberg, A.; Bhaskara Rao, K. P. S.; Shortt, Rae Michael) Bounded common extensions of vector measures. (English summary) **99e:28018**
Drewnowski, Lech (*with* Wnuk, Witold) Some Baire category results for measures with "big" ranges. **99j:28009**
Fernández y Fernández-Arroyo, Fidel José (*with* Jiménez Guerra, Pedro; Ulecia García, María Teresa) A Radon-Nikodým theorem for vector polymeasures. (English summary) **99m:28026**
Gámez, José L. (*with* Mendoza, José) On Denjoy-Dunford and Denjoy-Pettis integrals. (English summary) **99k:28013**
Halilović, Armin Semi-variation and multilinear Stieltjes integrals. (English summary) **99g:28022**
Hirshberg, A. *see* **D'Aniello, E.; et al., 99e:28018**
Jaker Ali, Sk. (*with* Chakraborty, N. D.) Pettis integration in locally convex spaces. (Russian summary) **99e:28019**
Jiménez Guerra, Pedro *see* **Fernández y Fernández-Arroyo, Fidel José; et al., 99m:28026**
Kawabe, Jun Weak convergence of tensor products of vector measures. (Japanese) (*see* **99i:00029**)
Martellotti, A. *see* **Brooks, J. K.; et al., 99e:28017**
Mendoza, José *see* **Gámez, José L., 99k:28013**
van Mill, Jan (*with* Ran, A. C. M.) On a generalization of Lyapounov's theorem. (English summary) **99k:28014**
Nakanishi, Shizu Riemann type integrals for functions with values in nuclear spaces and their properties. (English summary) **99g:28023**
— *see also* **Sakurada, Kuninori, 99i:28018**
Panchapagesan, T. V. Applications of a theorem of Grothendieck to vector measures. (English summary) **99h:28022**
Ran, A. C. M. *see* **van Mill, Jan, 99k:28014**
Ricker, Werner J. Rybakov's theorem in Fréchet spaces and completeness of L^1-spaces. (English summary) **99h:28023**
Sakurada, Kuninori (*with* Nakanishi, Shizu) Equivalence of the McShane and Bochner integrals for functions with values in Hilbertian (UCs-N) spaces endowed with nuclearity. (English summary) **99i:28018**
Shortt, Rae Michael *see* **D'Aniello, E.; et al., 99e:28018**
Swartz, Charles Uniform integrability and mean convergence for the vector-valued McShane integral. (English summary) **99d:28015**
Thomas, E. G. F. Vector-valued integration with applications to the operator-valued H^∞ space. (English summary) **99d:28016**
Ulecia García, María Teresa *see* **Fernández y Fernández-Arroyo, Fidel José; et al., 99m:28026**
Wnuk, Witold *see* **Drewnowski, Lech, 99j:28009**
Wu, Cong Xin (*with* Ye, Guoju) The McShane integral of Banach-valued functions defined on $\mathbf{R}^n$. I. (English and Chinese summaries) **99h:28024**
Ye, Guoju *see* **Wu, Cong Xin, 99h:28024**
Zhang, Xi Tang A criterion for Pettis integrability. (Chinese. English and Chinese summaries) **99j:28010**

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Blasco, Oscar Radon-Nikodym versus Fatou. (Spanish. Spanish summary) **99k:46023**
Canoy, Sergio R. (*with* Navarro, Milagros P.) Nonlinear integral representation of orthogonally additive operators. (English summary) **99m:26013**
Duchoň, Miloslav (*with* Kolesárová, Anna) Fourier transforms of vector measures on some semigroups. (English summary) **99j:28021**
Freniche, Francisco (*with* García-Vázquez, Juan Carlos; Rodríguez-Piazza, Luis) The failure of Fatou's theorem on Poisson integrals of Pettis integrable functions. (English summary) **99k:46075**
García-Vázquez, Juan Carlos *see* **Freniche, Francisco; et al., 99k:46075**
Hensz-Chądzyńska, Ewa (*with* Jajte, Ryszard; Paszkiewicz, Adam) Dilation theorems for completely positive maps and map-valued measures. (English summary) **99k:46114**
Jajte, Ryszard *see* **Hensz-Chądzyńska, Ewa; et al., 99k:46114**
Kolesárová, Anna *see* **Duchoň, Miloslav, 99j:28021**
Marchena, Begoña (*with* Piñeiro, Cándido) A note on sequences lying in the range of a vector measure valued in the bidual. (English summary) **99a:46023**
Masani, P. R. The homogeneous chaos from the standpoint of vector measures. (English summary) **99f:60102a**
— Errata: "The homogeneous chaos from the standpoint of vector measures". **99f:60102b**
Navarro, Milagros P. *see* **Canoy, Sergio R., 99m:26013**
Paszkiewicz, Adam *see* **Hensz-Chądzyńska, Ewa; et al., 99k:46114**
Piñeiro, Cándido *see* **Marchena, Begoña, 99a:46023**
Rodríguez-Piazza, Luis *see* **Freniche, Francisco; et al., 99k:46075**
Sun, Li Min[2] Some properties of vector measures with values in a locally convex space. (Chinese. English and Chinese summaries)
Vraciu, George Intégrales Hellinger pour les fonctions de l'ensemble. (English and French summaries) [Hellinger integrals for set functions] (*see* **99e:53001**)
Yao, Yun Fei A generalized Jensen inequality for vector-valued Bochner integrals in Banach spaces. (Chinese. English and Chinese summaries) **99c:46045**

28B10 Group- or semigroup-valued set functions, measures and integrals

Bhaskara Rao, K. P. S. *see* **Göbel, Rüdiger; et al., 99c:28032**
De Lucia, Paolo Convergence theorems in orthomodular posets. **99h:28025**
Duchoň, Miloslav (*with* Riečan, Beloslav) On the product of semigroup valued measures. (English summary) **99e:28020**
Göbel, Rüdiger (*with* Bhaskara Rao, K. P. S.; Shortt, Rae Michael) Extensions of group-valued set functions. (English summary) **99c:28032**
Riečan, Beloslav *see* **Duchoň, Miloslav, 99e:28020**
Shortt, Rae Michael *see* **Göbel, Rüdiger; et al., 99c:28032**
Volauf, Peter On regular group-valued measures. (English summary) **99d:28017**
Waldschaks, Gerd Extensions of group-valued modular maps. (English summary) **99c:28033**

Items with secondary classifications in 28B10

De Lucia, Paolo (*with* Morales, Pedro) Decomposition of group-valued measures on orthoalgebras. (English summary) **99m:28028**
Drewnowski, Lech (*with* Wnuk, Witold) Some Baire category results for measures with "big" ranges. **99j:28009**
Gelashvili, Koba *see* **Gogodze, Ioseb, 99e:47046**
Gogodze, Ioseb (*with* Gelashvili, Koba) Representation of C_0-semigroups of operators by a chronological integral. (English and Georgian summaries) **99e:47046**
Hirshberg, A. (*with* Shortt, Rae Michael) Strassen's theorem for group-valued charges. (English summary) **99i:28009**
Morales, Pedro *see* **De Lucia, Paolo, 99m:28028**
Shortt, Rae Michael *see* **Hirshberg, A., 99i:28009**
Vraciu, George Hellinger integrals for vector functions. (English summary) **99c:46044**
Wnuk, Witold *see* **Drewnowski, Lech, 99j:28009**

28B15 Set functions, measures and integrals with values in ordered spaces

Boccuto, Antonio (*with* Sambucini, Anna Rita) The Burkill-Cesari integral for Riesz spaces. (English and Italian summaries) **99c:28034**
— Dieudonné-type theorems for means with values in Riesz spaces. (English summary) **99m:28027**
D'Aniello, E. (*with* Shortt, Rae Michael) Vector-valued capacities. (English summary) **99h:28026**
De Lucia, Paolo (*with* Morales, Pedro) Decomposition of group-valued measures on orthoalgebras. (English summary) **99m:28028**
Elton, J. (*with* Hill, Theodore P.) On the basic representation theorem for convex domination of measures. (English summary) **99k:28015**
Hill, Theodore P. *see* **Elton, J., 99k:28015**
Lipovan, Octavian The measurability of functions with values in pseudometric spaces. (English summary) (*see* **99i:00027**)
Morales, Pedro *see* **De Lucia, Paolo, 99m:28028**
Pap, Endre The Lebesgue decomposition theorem for generalized measures. (English summary) **99m:28029**
Riečan, Beloslav (*with* Vrábelová, Marta) The Kurzweil construction of an integral in ordered spaces. (English summary) **99g:28024**
— On the extension of D-poset valued measures. (English summary) **99i:28019**
— *see also* **Vrábelová, Marta, 99c:28035**
Sambucini, Anna Rita *see* **Boccuto, Antonio, 99c:28034**
Shortt, Rae Michael *see* **D'Aniello, E., 99h:28026**
Vrábelová, Marta (*with* Riečan, Beloslav) On the Kurzweil integral for functions with values in ordered spaces. III. (English summary) **99c:28035**

— *see also* **Riečan, Beloslav**, 99g:28024

Items with secondary classifications in 28B15

Avallone, Anna (*with* Lepellere, Maria Antonietta) Modular functions: uniform boundedness and compactness. (English summary) **99d:28007**
Boccuto, Antonio Differential and integral calculus in Riesz spaces. (English summary) **99i:26017**
(Chovanec, Ferdinand) *see* **Riečan, Beloslav**, 99e:28001
Hirshberg, A. (*with* Shortt, Rae Michael) Strassen's theorem for group-valued charges. (English summary) **99i:28009**
(Kirchheimová, Hana) *see* **Riečan, Beloslav**, 99e:28001
(Kôpka, František) *see* **Riečan, Beloslav**, 99e:28001
Lepellere, Maria Antonietta *see* **Avallone, Anna**, 99d:28007
Neubrunn, Tibor *see* **Riečan, Beloslav**, 99e:28001
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Integral, measure, and ordering. (English summary) **99e:28001**
(Riečanová, Zdenka) *see* **Riečan, Beloslav**, 99e:28001
Shortt, Rae Michael *see* **Hirshberg, A.**, 99i:28009
Volauf, Peter On regular group-valued measures. (English summary) **99d:28017**

28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 90A14]

Amrani, Allal Lemme de Fatou pour l'intégrale de Pettis. (English summary) [Fatou lemma for the Pettis integral] **99h:28027**
Bárcenas, Diómedes (*with* Urbina, Wilfredo) Measurable multifunctions in nonseparable Banach spaces. (English summary) **99e:28021**
de Blasi, Francesco S. (*with* Pianigiani, Giulio) Hausdorff measurable multifunctions. **99m:28030**
Castaing, Charles Weak compactness criteria in set-valued integration. (English summary) **99f:28016**
Jing, Cheng Ming (*with* Li, Guo Cheng) Egorov's theorem for measurable set-valued mappings. (Chinese. English and Chinese summaries)
Kucia, Anna (*with* Nowak, Andrzej S.) Optimal measurable selections via Marczewski function. (English summary) **99g:28025**
Li, Guo Cheng *see* **Jing, Cheng Ming**
Nowak, Andrzej S. *see* **Kucia, Anna**, 99g:28025
Olko, Jolanta Selections of an iteration semigroup of linear set-valued functions. (English summary) **99f:28017**
Pianigiani, Giulio *see* **de Blasi, Francesco S.**, 99m:28030
Rassias, Themistocles M. Stability and set-valued functions. (English summary) **99m:28031**
Taraldsen, Gunnar Measurability of intersections of measurable multifunctions. (English summary) **99a:28009**
Urbina, Wilfredo *see* **Bárcenas, Diómedes**, 99e:28021
Xue, Xiao Ping[1] (*with* Zhang, Bo[1]) Integrals of set-valued mappings with values in locally convex spaces. (Chinese. English and Chinese summaries)
Zhang, Bo[1] *see* **Xue, Xiao Ping[1]**

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Castaing, Charles (*with* Ezzaki, Fatima) SLLN for convex random sets and random lower semicontinuous integrands. (English summary) **99e:60081**
Danilov, L. I. Measure-valued almost periodic functions and almost periodic selections of multivalued mappings. (Russian. Russian summary) **99e:42016**
Ezzaki, Fatima *see* **Castaing, Charles**, 99e:60081
Kreinovich, Vladik (*with* Molchanov, Ilya S.) How to define an average of several sets? II. (English summary) **99k:60022**
Kwiecińska, Grażyna (*with* Ślęzak, W.) On complete measurability of multifunctions defined on product spaces. **99g:54011**
Li, Shoumei (*with* Ogura, Yukio) Convergence theorems for set valued and fuzzy valued martingales and smartingales. (English summary) **99k:60024**
Michta, Mariusz Note on the selection properties of set-valued semimartingales. (English summary) **99f:60089**
— (*with* Rybiński, Longin E.) Selections of set-valued stochastic processes. (English summary) **99h:60038**
Molchanov, Ilya S. *see* **Kreinovich, Vladik**, 99k:60022
Moussaoui, Mohammed (*with* Seeger, Alberto) Second-order subgradients of convex integral functionals. (English summary) **99m:49028**
Nowak, Andrzej S. Normal fields of functionals and optimal measurable sections. (English summary) **99e:49054**
Ogura, Yukio *see* **Li, Shoumei**, 99k:60024
Papageorgiou, Nikolaos S. Transition vector measures and multimeasures and parametric set-valued integrals. (English summary) **99a:46081**
— *see also* **Wang, Xiaomin[2]**, 99h:47081
Rybiński, Longin E. *see* **Michta, Mariusz**, 99h:60038
Seeger, Alberto *see* **Moussaoui, Mohammed**, 99m:49028
Ślęzak, W. *see* **Kwiecińska, Grażyna**, 99g:54011
Wang, Xiaomin[2] (*with* Xue, Xiao Ping[1]) Comment: "Representation of set valued operators" [Trans. Amer. Math. Soc. **292** (1985), no. 2, 557–572; MR 87c:47085] by N. Papageorgiou. (English and Chinese summaries) **99h:47081**
Xue, Xiao Ping[1] *see* **Wang, Xiaomin[2]**, 99h:47081

28B99 None of the above, but in this section

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Bruhat, François Intégration p-adique (d'après F. Tomas). [p-adic integration (after F. Tomás)] (*see* **99f:00039**)
Lahti, Pekka J. (*with* Mączyński, Maciej; Ylinen, Kari) The moment operators of phase space observables and their number margins. (English summary) **99m:81118**
Mączyński, Maciej *see* **Lahti, Pekka J.; et al.**, 99m:81118
Riečan, Beloslav On the strong law of large numbers for weak observables in MV algebra. (English summary) **99j:81018**
Ylinen, Kari *see* **Lahti, Pekka J.; et al.**, 99m:81118

28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

Díaz Carrillo, M. (*with* Günzler, Hans) Daniell-Loomis integrals. (English summary) **99g:28026**
Günzler, Hans *see* **Díaz Carrillo, M.**, 99g:28026
Mikhalev, A. V. *see* **Zakharov, Valeriĭ Konstantinovich**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalev, A. V.) The problem of integral representation for Radon measures on a Hausdorff space. (Russian)
Zanelli, Vanna Integral operators of fractional order. (Italian) **99d:28018a**
— Integral operators and probability measures. (Italian) **99d:28018b**

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Berti, Patrizia (*with* Rigo, Pietro) Sufficient conditions for the existence of disintegrations. (English summary) **99m:60005**
Petrakis, Minos A. Discrepancy norms on the space $M[0, 1]$ of Radon measures. **99k:46040**
Rigo, Pietro *see* **Berti, Patrizia**, 99m:60005

28C10 Set functions and measures on topological groups, Haar measures, invariant measures [see also 22Axx, 43A05]

Kharazishvili, A. B. On Vitali construction for commutative groups with quasiinvariant measures. (English and Polish summaries) **99a:28010**
— On the uniqueness of Lebesgue and Borel measures. (English summary) **99k:28016**
Lee, Jaewon Two theorems for Poisson measures on hypergroups. (English summary) **99f:28018**
Rodríguez-Salinas, Baltasar Uniformly countably additive families of measures and group invariant measures. (English summary) **99j:28011**
Skwarczyński, M. Haar measure according to Bredon. **99b:28013**

Items with secondary classifications in 28C10

Ambartsumyan, R. V. (*with* Oganyan, V. K.) Finite-additive functionals in the space of planes. I. (Russian. English and Russian summaries) **99i:52006**
Aramyan, R. G. Measure generation in the space of planes, and spherical Euler functionals. (Russian. English and Russian summaries) **99h:52007**
Fisher, Albert M. *see* **Kaimanovich, Vadim A.**, 99d:60087
Gebuhrer, Marc-Olivier Haar measure on locally compact hypergroups. (English summary) (*see* **99a:00013**)
Grekas, S. *see* **Gryllakis, C.**, 99m:28012
Gryllakis, C. (*with* Grekas, S.) On products of Radon measures. (English summary) **99m:28012**
Kaimanovich, Vadim A. (*with* Fisher, Albert M.) A Poisson formula for harmonic projections. (English and French summaries) **99d:60087**
Mycielski, Jan Non-amenable groups with amenable-action and some paradoxical decompositions in the plane. **99e:28004**
Oganyan, V. K. *see* **Ambartsumyan, R. V.**, 99i:52006
Paštéka, Milan Submeasures and uniform distribution on Dedekind domains. (English summary) **99c:11098**
Ruzsa, Imre Z. The Brunn-Minkowski inequality and nonconvex sets. (English summary) **99b:52016**
Smolyanov, Oleg G. Differentiable measures on current groups. (Russian) **99e:58028**
Tarieladze, V. I. On Ito-Nisio type theorems for DS-groups. (English summary) **99b:60008**

28C15 Set functions and measures on topological spaces (regularity of measures, etc.)

Aldaz, J. M. Borel extensions of Baire measures. (English summary) **99c:28036**
Das, Pratulananda *see* **Lahiri, B. K.**, 99f:28020
Fernández Novoa, J. Moderation of sigma-finite Borel measures. (English summary) **99c:28037**
— Generalized Riesz measures. (English summary) **99f:28019**
Fremlin, D. H. On compact spaces carrying Radon measures of uncountable Maharam type. (English summary) **99d:28019**
Grubb, D. J. (*with* LaBerge, Tim) Additivity of quasi-measures. (English summary) **99a:28011**
Knight, John E. Finitely additive τ-smooth measures and the Wallman space. (English summary) **99c:28038**
LaBerge, Tim *see* **Grubb, D. J.**, 99a:28011
Lahiri, B. K. (*with* Das, Pratulananda) Measures in bitopological spaces. II. (English summary) **99f:28020**
Preiss, David (*with* Tišer, Jaroslav) Positivity principle for more concentrated measures. (English summary) **99g:28027**
Tišer, Jaroslav *see* **Preiss, David**, 99g:28027

Winkler, Reinhard On the distribution behaviour of sequences. (English summary) **99a:28012**

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Brandsma, Henno (*with* van Mill, Jan) Monotone normality, measures and hyperspaces. (English summary) **99f:54027**
Bunce, L. J. (*with* Saitô, Kazuyuki; Wright, J. D. Maitland) A Dixmier-Schafer-Zhang theorem for operator algebras. (English summary) **99m:46147**
Chaatit, F. On simple DBSC functions. (English summary) **99d:46029**
D'Aniello, E. (*with* Shortt, Rae Michael) Vector-valued capacities. (English summary) **99h:28026**
Edalat, Abbas Domains for computation in mathematics, physics and exact real arithmetic. (English summary) **99m:03091**
— When Scott is weak on the top. (English summary) **99c:68166**
— (*with* Heckmann, Reinhold) A computational model for metric spaces. (English summary) **99b:06009**
Heckmann, Reinhold *see* **Edalat, Abbas, 99b:06009**
Hejduk, Jacek Some properties of the density topology with respect to an extension of the Lebesgue measure. (English summary) **99j:28002**
Járai, Antal Regularity property of the functional equation of the Dirichlet distribution. (English summary) **99e:39083**
Ji, Ai Bing (*with* Zhang, Yan E; Sun, Jian Ping) Fuzzy measures on locally compact spaces. (Chinese. English and Chinese summaries)
Lachout, Petr Weak convergence in Hoffmann-Jørgensen sense. (English summary) **99f:60008**
Lawson, Jimmie D. Computation on metric spaces via domain theory. (English summary) **99c:54043**
Mikhalev, A. V. *see* **Zakharov, Valeriĭ Konstantinovich**
van Mill, Jan *see* **Brandsma, Henno, 99f:54027**
Norberg, Tommy (*with* Vervaat, Wim) Capacities on non-Hausdorff spaces. (English summary) **99f:28004**
Panchapagesan, T. V. Baire and σ-Borel characterizations of weakly compact sets in $M(T)$. (English summary) **99h:28008**
Plebanek, Grzegorz On Pettis integral and Radon measures. (English summary) **99c:46043**
Ponnley, James On lattice associated outer measures and applications to smoothness conditions. (English summary) **99g:28004**
Rachev, Svetlozar T. (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. I. (English summary) **99k:28006**
— (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. II. (English summary) **99k:28007**
Rüschendorf, Ludger *see* **Rachev, Svetlozar T., 99k:28006** *and* **99k:28007**
Saitô, Kazuyuki *see* **Bunce, L. J.; et al., 99m:46147**
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Yan, Catherine Huafei Decomposition of Lebesgue spaces. **99h:28011**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalev, A. V.) The problem of integral representation for Radon measures on a Hausdorff space. (Russian)
Zhang, Yan E *see* **Ji, Ai Bing; et al.**

28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

Ahn, Byung Moo (*with* Johnson, Gerald W.) Path integrals, Fourier transforms, and Feynman's operational calculus. (English summary) **99d:28020**
Ahn, Jae Moon L_1 analytic Fourier-Feynman transform on the Fresnel class of abstract Wiener space. (English summary) **99i:28020**
Egorov, A. D. L_2-isomorphic Gaussian models for a class of functional integrals with respect to non-Gaussian quasimeasures. (Russian. English and Russian summaries) **99d:28021**
Huffman, Timothy (*with* Park, Chull; Skoug, David) Convolution and Fourier-Feynman transforms. (English summary) **99c:28039**
Johnson, Gerald W. *see* **Ahn, Byung Moo, 99d:28020**
Kim, Bong Jin (*with* Ryu, Kun Sik) An operator valued function space integral of functionals involving double integrals. (English summary) **99g:28028**
Kim, Byung Soo[1] *see* **Yoo, Il, 99k:28017**
Krugova, E. P. On shifts of convex measures. (Russian. Russian summary) **99m:28032**
Mizumachi, Hitoshi (*with* Satô, Hiroshi[1]) Absolute continuity of two-valued stochastic parallel translations of a Gaussian measure. (Japanese) (*see* **99i:00029**)
Neretin, Yurii A. On the correspondence between the boson Fock space and the space L^2 with respect to Poisson measure. (Russian. Russian summary) **99j:28012**
Park, Chull (*with* Skoug, David; Storvick, David) Fourier-Feynman transforms and the first variation. (English summary) **99d:28022**
— *see also* **Huffman, Timothy; et al., 99c:28039**
Petrov, Valeriĭ Alekseevich *see* **Zavadskiĭ, V. L., 99j:28013**
Privault, Nicolas Absolute continuity in infinite dimensions and anticipating stochastic calculus. (English summary) **99h:28028**
Pugachëv, O. V. Surface measures in infinite-dimensional spaces. (Russian. Russian summary) **99g:28029**
Riss, E. On the scooping property of measures by means of disjoint balls. **99g:28030**
Ryu, Kun Sik *see* **Kim, Bong Jin, 99g:28028**
Satô, Hiroshi[1] *see* **Mizumachi, Hitoshi, (99i:00029)**
Savel'ev, L. Ya. Spaces with measures. (Russian) **99d:28023**
Shimomura, Hiroaki Reminiscences of the origination of infinite-dimensional measure theory—from the work of Yasuo Yamasaki. (Japanese) (*see* **99d:22001**)
Skoug, David *see* **Huffman, Timothy; et al., 99c:28039** *and* **Park, Chull; et al., 99d:28022**
Storvick, David *see* **Park, Chull; et al., 99d:28022**
Yoo, Il (*with* Kim, Byung Soo[1]) Analytic Feynman integrable functions over paths in abstract Wiener space. (English summary) **99k:28017**
Zavadskiĭ, V. L. (*with* Petrov, Valeriĭ Alekseevich) Approximate calculation of Wiener path integrals of a special form. (Russian. English and Russian summaries) **99j:28013**

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— (*with* Mayer-Wolf, Eduardo) Flows generated by vector fields of Sobolev type, and the corresponding transformations of probability measures. (Russian) **99f:60009**
Caballero, María Emilia (*with* Fernández, Begoña; Nualart, David) Composition of skeletons and support theorems. (English summary) **99f:60107**
Chang, Kun Soo (*with* Kim, Young Sik; Yoo, Il) An L_p analytic Fourier-Feynman transform on abstract Wiener space. (English summary) **99m:46105**
Chang, Seung Jun (*with* Lee, Sang Deok) The partial differential equation on function space with respect to an integral equation. (English summary) **99c:60177**
Dalang, Robert C. (*with* Mountford, T.) Points of increase of functions in the plane. (English summary) **99g:26032**
De Angelis, G. F. (*with* Jona Lasinio, G.; Sidoravicius, V.) Berezin integrals and Poisson processes. (English summary) **99b:81128**
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Giuliano Antonini, Rita Sub-Gaussian random variables in Hilbert spaces. **99e:60017**
Jona Lasinio, G. *see* **De Angelis, G. F.; et al., 99b:81128**
Kim, Young Sik *see* **Chang, Kun Soo; et al., 99m:46105**
Kirillov, A. I. Generalized differentiable product measures. (Russian. Russian summary) **99f:46064**
Lee, Sang Deok *see* **Chang, Seung Jun, 99c:60177**
Luo, Shun-Long A nonlinear deformation of Wiener space. (English summary) **99j:60076**
Martini, Claude Polynômes harmoniques sur l'espace du bruit blanc. (English and French summaries) [Harmonic analysis on white noise space] **99m:60102**
Masani, P. R. The homogeneous chaos from the standpoint of vector measures. (English summary) **99f:60102a**
— Errata: "The homogeneous chaos from the standpoint of vector measures". **99f:60102b**
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McClure, Mark The Hausdorff dimension of the hyperspace of compact sets. (English summary) **99a:28006**
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Norin, N. V. (*with* Smolyanov, Oleg G.) Logarithmic derivatives of measures, and Gibbs distributions. (Russian) **99d:46067**
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Park, Chull (*with* Skoug, David) Integration by parts formulas involving analytic Feynman integrals. (English summary) **99i:46031**
Privault, Nicolas The Sard inequality on two non-Gaussian spaces. (English summary) **99m:60030**
Pugachëv, O. V. The Ostrogradskiĭ-Gauss formula in an infinite-dimensional space. (Russian. Russian summary) **99g:46058**
Schechtman, Gideon (*with* Schlumprecht, Thomas; Zinn, Joel) On the Gaussian measure of the intersection. (English summary) **99c:60032**
Schlumprecht, Thomas *see* **Schechtman, Gideon; et al., 99c:60032**
Sidoravicius, V. *see* **De Angelis, G. F.; et al., 99b:81128**
Skoug, David *see* **Park, Chull, 99i:46031**
Smolyanov, Oleg G. Differentiable measures on current groups. (Russian) **99e:58028**
— *see also* **Norin, N. V., 99d:46067**
Üstünel, Ali Suleyman (*with* Zakai, Moshe) Degree theory on Wiener space and an application to a class of SPDEs. **99i:60114**
Vraciu, George Hellinger integrals for vector functions. (English summary) **99c:46044**
von Weizsäcker, Heinrich Sudakov's typical marginals, random linear functionals and a conditional central limit theorem. (English summary) **99c:60006**
Yoo, Il *see* **Chang, Kun Soo; et al., 99m:46105**
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28C99 None of the above, but in this section

Basu, C. K. *see* **Ganguly, Sobhakar; et al., 99m:28033**
Bykadorov, I. A. (*with* Rubinshteĭn, G. Sh.) Some families of discrete extremal problems on unbounded locally compact metric spaces. (Russian) **99c:28040**
Ganguly, Sobhakar (*with* Basu, C. K.; Sinha Roy, S.) Existence and uniqueness of an invariant integral on a more general class of functions in a generalized topological group. (English summary) **99m:28033**
Rubinshteĭn, G. Sh. *see* **Bykadorov, I. A., 99c:28040**
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Sjödin, Tord On s-sets and mutual absolute continuity of measures on homogeneous spaces. (English summary) **99d:28024**

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Adams, David R. Choquet integrals in potential theory. (English summary) **99g:31010**
Boyarsky, Abraham (*with* Góra, Paweł; Lioubimov, Vadim) Dynamics on spaces of compact subsets with application to brain modeling. (English summary) **99k:92008**
Đorđević, Radosav Ž. *see* **Rašković, Miodrag, 99e:03045**
Dvurečenskij, Anatolij Measures and $\perp$-decomposable measures on effects of a Hilbert space. (English summary) **99c:81012**
Fujimoto, Katsushige *see* **Murofushi, Toshiaki; et al., 99i:28025**
Góra, Paweł *see* **Boyarsky, Abraham; et al., 99k:92008**
Lioubimov, Vadim *see* **Boyarsky, Abraham; et al., 99k:92008**
Lipovan, Octavian Uniformities on probabilistic metric structures—valued function spaces. (English summary)
Murofushi, Toshiaki (*with* Fujimoto, Katsushige; Sugeno, Michio) Canonical separated hierarchical decomposition of the Choquet integral over a finite set. (English summary) **99i:28025**
— *see also* **Sugeno, Michio; et al., 99i:28027**

Narukawa, Yasuo *see* **Sugeno, Michio; et al., 99i:28027**
Rašković, Miodrag (*with* Đorđević, Radosav Ž.) ★ Probability quantifiers and operators. **99e:03045**
Scheutzow, Michael K. R. (*with* von Weizsäcker, Heinrich) Which moments of a logarithmic derivative imply quasiinvariance? (English summary) **99i:60093**
Sugeno, Michio (*with* Narukawa, Yasuo; Murofushi, Toshiaki) Choquet integral and fuzzy measures on locally compact space. (English summary) **99i:28027**
— *see also* **Murofushi, Toshiaki; et al., 99i:28025**
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28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

Aaronson, Jon ★ An introduction to infinite ergodic theory. (English summary) **99d:28025**
Keller, Gerhard ★ Equilibrium states in ergodic theory. (English summary) **99e:28022**

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Pollicott, Mark (*with* Yuri, Michiko) ★ Dynamical systems and ergodic theory. (English summary) **99f:58130**
Yuri, Michiko *see* **Pollicott, Mark, 99f:58130**

28D05 Measure-preserving transformations

Aaronson, Jon (*with* Lemańczyk, Mariusz; Volný, Dalibor) A cut salad of cocycles. (English summary) **99j:28014**
Adams, Terrence M. (*with* Petersen, Karl E.) Binomial-coefficient multiples of irrationals. (English summary) **99d:28026**
— Smorodinsky's conjecture on rank-one mixing. (English summary) **99e:28023**
Ageev, O. N. On ergodic transformations with homogeneous spectrum. (English summary) **99m:28034**
Assani, I. Corrections to: "A Wiener-Wintner property for the helical transform" [Ergodic Theory Dynam. Systems **12** (1992), no. 2, 185–194; MR 93h:28023]. **99h:28029**
— Multiple recurrence and almost sure convergence for weakly mixing dynamical systems. (English summary) **99f:28021**
Baaj, Saad (*with* Skandalis, Georges) Transformations pentagonales. (English and French summaries) [Pentagonal transformations] **99k:28018**
Baccelli, François (*with* Mairesse, Jean) Ergodic theorems for stochastic operators and discrete event networks. (English summary) **99c:28041**
Baggett, Lawrence W. (*with* Medina, Herbert A.; Merrill, Kathy D.) Cohomology of polynomials under an irrational rotation. (English summary) **99a:28013**
Balibrea Gallego, Francisco Construction of uniquely ergodic minimal sets. (Spanish. Spanish summary) (*see* **99d:00018**)
— (*with* Tendero, Antonio) Lyapunov exponents and metric entropy in dynamical systems. (Spanish. Spanish summary) (*see* **99d:00018**)
Bergelson, Vitaly (*with* McCutcheon, R.) Recurrence for semigroup actions and a non-commutative Schur theorem. **99f:28022**
Bertrand-Mathis, Anne Sur les mesures simultanément invariantes pour les transformations $x \to \{\lambda x\}$ et $x \to \{\beta x\}$. (English summary) [On simultaneously invariant measures for the transformations $x \to \{\lambda x\}$ and $x \to \{\beta x\}$] **99f:28023**
Bezhaeva, Z. I. (*with* Oseledets, V. I.) On a stochastic dynamical system. (Russian. Russian summary) **99h:28030**
Binkowska, M. (*with* Kamiński, Brunon) On finitary shifts. **99e:28024**
Blume, Frank Possible rates of entropy convergence. (English summary) **99c:28042**
Brini, F. (*with* Siboni, S.) Estimates to correlation decay in discrete dynamical systems by spectral methods. (English summary) **99e:28025**
Bugiel, Piotr Distortion inequality for the Frobenius-Perron operator and some of its consequences in ergodic theory of Markov maps in $\mathbf{R}^d$. (English summary) **99b:28014**
Bułatek, W. (*with* Lemańczyk, Mariusz; Rudolph, Daniel J.) Constructions of cocycles over irrational rotations. (English summary) **99b:28015**
Burton, G. R. (*with* Douglas, Robert John) Rearrangements and polar factorisation of countably degenerate functions. (English summary) **99h:28031**
Burton, Robert M., Jr. (*with* Steif, Jeffrey E.) Coupling surfaces and weak Bernoulli in one and higher dimensions. (English summary) **99c:28043**
Coelho, Zaqueu (*with* Parry, William) Shift endomorphisms and compact Lie extensions. (English summary) **99d:28027**
— (*with* Quas, Anthony N.) Criteria for $\overline{d}$-continuity. (English summary) **99d:28028**
Collet, Pierre (*with* Eckmann, Jean-Pierre) Oscillations of observables in 1-dimensional lattice systems. (English summary) **99a:28014**
Dajani, Karma (*with* Kraaikamp, Cor; Solomyak, Boris) The natural extension of the β-transformation. **99d:28029**
Danilenko, A. I. Comparison of cocycles of measured equivalence relations and lifting problems. (English summary) **99e:28026**
Denker, Manfred (*with* Gordin, Mikhail) The central limit theorem for random perturbations of rotations. (English summary) **99f:28024**
Derrien, Jean-Marc Construction de cocycles en escalier ergodiques et faiblement mélangeants au-dessus de rotations irrationnelles du cercle. (English and French summaries) [Construction of ergodic and weakly mixing step cocycles over irrational rotations of the circle] **99d:28030**
Douglas, Robert John *see* **Burton, G. R., 99h:28031**
Downarowicz, Tomasz The royal couple conceals their mutual relationship: a noncoalescent Toeplitz flow. (English summary) **99d:28031**
— Weakly almost periodic flows and hidden eigenvalues. (English summary) **99c:28044**
Eckmann, Jean-Pierre *see* **Collet, Pierre, 99a:28014**
Eigen, Stanley (*with* Prasad, V. S.) Multiple Rokhlin tower theorem: a simple proof. (English summary) **99h:28032**
— (*with* Hajian, Arshag; Halverson, Kim) Multiple recurrence and infinite measure preserving odometers. (English summary) **99m:28035**
Ephremidze, L. On the integrability of the ergodic Hilbert transform for a class of functions with equal absolute values. (English summary) **99d:28032**
Feldman, Jacob[1] (*with* Rudolph, Daniel J.) Standardness of sequences of σ-fields given by certain endomorphisms. (English summary) **99h:28033**
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Gaboriau, Damien Mercuriale de groupes et de relations. (English and French summaries) [Price-list for groups and relations] **99h:28034**
Gabriel, Patrick (*with* Lemańczyk, Mariusz; Schmidt, Klaus[1]) Extensions of cocycles for hyperfinite actions and applications. (English summary) **99a:28015**
Gaposhkin, V. F. Spectral criteria for the existence of generalized ergodic transformations. (Russian. Russian summary) **99d:28034**
Georgii, Hans-Otto Mixing properties of induced random transformations. (English summary) **99c:28045**
Gologan, Radu-Nicolae On the subadditive ergodic theorem. (Romanian. English and Romanian summaries) **99m:28036**
Goodson, Geoffrey R. (*with* Ryzhikov, V. V.) Conjugations, joinings, and direct products of locally rank one dynamical systems. (English summary) **99b:28016**
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Guenais, Mélanie Une majoration de la multiplicité spectrale d'opérateurs associés à des cocycles réguliers. (English summary) [Upper bound for the spectral multiplicity of operators associated with regular cocycles] **99i:28021**
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Hulse, Paul A class of unique g-measures. (English summary) **99d:28035**
Jabłoński, Marian (*with* Góra, Paweł) Invariant measures and the compactness of the domain. (English summary) **99i:28022**
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Jardas, Cvetan (*with* Sarapa, Nikola) A summability method in some strong laws of large numbers. (English and Croatian summaries) **99c:28047**
Jones, Roger L. Ergodic theory and connections with analysis and probability. (English summary) **99d:28036**
del Junco, Andrés A simple map with no prime factors. (English summary) **99d:28037**
Kamae, Teturo (*with* Keane, Michael S.) A simple proof of the ratio ergodic theorem. **99c:28048**
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Klemeš, Ivo (*with* Reinhold, Karin) Rank one transformations with singular spectral type. (English summary) **99c:28049**
Knill, Oliver Singular continuous spectrum and quantitative rates of weak mixing. (English summary) **99c:28050**
Kornfeld, Isaac (*with* Krygin, Andrei) On the cohomology equivalence classes for non-singular mappings. (English summary) **99m:28037**
Kowalska, Elżbieta (*with* Kowalski, Zbigniew S.) Eigenfunctions for quasi-Markovian transformations. (English summary) **99h:28035**
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Kraaikamp, Cor *see* **Dajani, Karma; et al., 99d:28029**
Krupa, G. Ergodic theorems for subadditive superstationary families of random sets with values in Banach spaces. (English summary) **99j:28015**
Krygin, Andrei *see* **Kornfeld, Isaac, 99m:28037**
Kwiatkowski, Jan Inverse limit of M-cocycles and applications. (English summary) **99h:28036**
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Lambert, Alan Measurable majorants in L^1. **99g:28031**
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Lemańczyk, Mariusz Entropy of Gaussian actions for countable abelian groups. (English summary) **99g:28032**
— (*with* Parreau, F.) On the disjointness problem for Gaussian automorphisms. (English summary) **99j:28016**
— *see also* **Gabriel, Patrick; et al., 99a:28015**; **Bułatek, W.; et al., 99b:28015** *and* **Aaronson, Jon; et al., 99j:28014**
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Muehlegger, Erich J. (*with* Raich, Andrew S.; Silva, Cesar E.; Zhao, Wenhuan) Lightly mixing on dense algebras. (English summary) **99c:28052**
Nair, Radhakrishnan On Hartman uniform distribution and measures on compact spaces. (English summary) **99g:28033**
Noorani, Mohd. Salmi Md. Lifting ergodic properties to homogeneous extensions of measure-preserving transformations. (English summary) (*see* **99g:00046**)
Ormes, Nicholas S. Strong orbit realization for minimal homeomorphisms. (English summary) **99c:28053**
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Park, Kyewon Koh Discrete proof of even Kakutani equivalence via α- and β-equivalence. (English summary) **99e:28027**
— α-equivalence. (English summary) **99h:28037**
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Petersen, Karl E. (*with* Schmidt, Klaus[1]) Symmetric Gibbs measures. (English summary) **99a:28016**
— *see also* **Adams, Terrence M., 99d:28026**
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Quas, Anthony N. Rigidity of continuous coboundaries. (English summary) **99c:28054**
— *see also* **Coelho, Zaqueu, 99d:28028**
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Rudolph, Daniel J. Fully generic sequences and a multiple-term return-times theorem. (English summary) **99c:28055**
— *see also* **Bułatek, W.; et al., 99b:28015** *and* **Feldman, Jacob[1], 99h:28033**
de la Rue, Thierry L'ergodicité induit un type spectral maximal équivalent à la mesure de Lebesgue. (English and French summaries) [Ergodicity induces a maximal spectral type that is equivalent to Lebesgue measure] **99e:28028**
— Rang des systèmes dynamiques gaussiens. (English summary) [Rank of Gaussian dynamical systems] **99d:28038**
Ryzhikov, V. V. Wreath products of tensor products, and a stochastic centralizer of dynamical systems. (Russian. Russian summary) **99e:28029**
— Transformations having homogeneous spectra. (English summary) **99m:28038**
— *see also* **Goodson, Geoffrey R., 99b:28016**
Şahin, Ayşe Arzu Tiling representations of $\mathbf{R}^2$ actions and α-equivalence in two dimensions. (English summary) **99k:28020**
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Schneider, Dominique Théorèmes ergodiques perturbés. (English summary) [Perturbed ergodic theorems] **99c:28056**
Serafin, J. The finitary coding of two Bernoulli schemes with unequal entropies has finite expectation. (English summary) **99h:28038**
Sharapov, V. G. Discrete partitions and ergodic endomorphisms of the Lebesgue space. (Russian. English and Uzbek summaries) **99f:28026**
— A class of ergodic inexact endomorphisms of a Lebesgue space. (Russian. English and Uzbek summaries) **99f:28027**
Siboni, S. Decay of correlations in skew endomorphisms with Bernoulli base. (Italian summary) **99a:28017**
— *see also* **Brini, F., 99e:28025**
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Thaler, Maximilian The Dynkin-Lamperti arc-sine laws for measure preserving transformations. (English summary) **99k:28021**
Thieullen, Ph. Ergodic reduction of random products of two-by-two matrices. (English summary) **99j:28017**
Thouvenot, Jean-Paul An example of discontinuity in the computation of the Lyapunov exponents. **99g:28034**
Volný, Dalibor BV coboundaries over irrational rotations. (English summary) **99b:28017**
— *see also* **Aaronson, Jon; et al., 99j:28014**
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Weiss, Benjamin Multiple recurrence and doubly minimal systems. (English summary) **99a:28018**
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Ahn, Youngho (*with* Choe, Geon Ho) On normal numbers mod 2. **99b:11082**
Akcoglu, Mustafa A. (*with* Jones, Roger L.; Schwartz, Peter O.) Variation in probability, ergodic theory and analysis. **99a:60048**
Antoniou, Ioannis (*with* Suchanecki, Z.) Extension of the dynamics of unstable systems. (English summary) **99f:82043**
Assani, I. Convergence of the p-series for stationary sequences. (English summary) **99c:60061**
Bartoszek, Wojciech Nonexpansive, $\mathcal{T}$-continuous antirepresentations have common fixed points. (English summary) **99f:47091**
Berger, M. S. A fundamental result of quasi-periodic functions of several variables and the ergodic theorem. (English summary) **99g:42008**
de Bièvre, Stephan (*with* Forni, Giovanni) On the growth of averaged Weyl sums for rigid rotations. (English summary) **99e:11114**
Boyarsky, Abraham (*with* Góra, Paweł) ★ Laws of chaos. (English summary) **99a:58102**
Bradley, Richard C. A "coboundary" theorem for sums of random variables taking their values in a Banach space. (English summary) **99e:60016**
Braverman, Michael (*with* Rubshtein, Ben-Zion; Veksler, A. S.) Dominated ergodic theorems in rearrangement invariant spaces. (English summary) **99b:47014**
Camelier, Ricardo (*with* Gutierrez, Carlos) Affine interval exchange transformations with wandering intervals. (English summary) **99e:58117**
Carvalho, Maria Conceiçaõ Vieira Contributions to a rigidity conjecture. (English summary) **99j:58120**
Chernov, Nikolai I. (*with* Markarian, Roberto) Anosov maps with rectangular holes. Nonergodic cases. (English summary) **99b:58142**
— (*with* Markarian, Roberto; Troubetzkoy, S.) Conditionally invariant measures for Anosov maps with small holes. (English summary) **99k:58111**
— Statistical properties of piecewise smooth hyperbolic systems in high dimensions. (English summary) **99k:58134**
Choe, Geon Ho (*with* Shin, Sujin) Strong shift equivalence of 2 by 2 non-negative integral matrices. (English summary) **99f:54052**
— *see also* **Ahn, Youngho, 99b:11082**
Çömez, Doğan (*with* Ferrando, Sebastian) On the sequences that are good in the mean for positive L_p-contractions, $1 \le p < \infty$. **99i:47014**
— Moving averages of superadditive processes with respect to L_p-contractions, $1 < p < \infty$. (English summary) **99j:47012**
Dajani, Karma (*with* Kraaikamp, Cor) A note on the approximation by continued fractions under an extra condition. (English summary) **99f:11099**
— (*with* Kraaikamp, Cor) A Gauss-Kusmin theorem for optimal continued fractions. (English summary) **99h:11089**
Dembo, Amir (*with* Zeitouni, Ofer) Moderate deviations for iterates of expanding maps. (English summary) **99k:60072**
Dorofeev, S. V. (*with* Thomsen, Klaus) Factors from ergodic theory and group-subgroup subfactors. (English summary) **99d:46090**
Downarowicz, Tomasz (*with* Lacroix, Y.) Merit factors and Morse sequences. (English summary) **99i:11015**
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Flytzanis, E. (*with* Kanakis, L.) Unimodular eigenvalues and invariant probabilities for some classes of linear operators. (English summary) **99g:47014**
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Forrest, A. H. K-groups associated with substitution minimal systems. (English summary) **99c:54056**
Forte, B. (*with* Mendivil, Franklin) A classical ergodic property for IFS: a simple proof. (English summary) **99d:58103**
Furukado, Maki (*with* Ito, Shunji) The quasi-periodic tiling of the plane and Markov subshifts. **99f:52024**
Gangbo, Wilfrid The Monge mass transfer problem and its applications. (English summary) **99k:49092**
Góra, Paweł *see* **Boyarsky, Abraham, 99a:58102**
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Haddad, Kamel N. (*with* Johnson, Aimee S. A.) IP cluster points, idempotents, and recurrent sequences. (English summary) **99j:54039**
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Iwai, Keiichiro The rotation sets versus the Markov partitions. (English summary) **99m:58127**
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Kanakis, L. *see* **Flytzanis, E., 99g:47014**
Keller, Gerhard Mixing for finite systems of coupled tent maps. (English summary) **99d:58106**
Kharazishvili, A. B. Sup-measurable and weakly sup-measurable mappings in the theory of ordinary differential equations. (English summary) **99e:28003**
Kraaikamp, Cor (*with* Meester, Ronald) Convergence of continued fraction type algorithms and generators. (English summary) **99c:11087**
— *see also* **Dajani, Karma, 99f:11099** *and* **99h:11089**
Lacroix, Y. On strong uniform distribution. II. The infinite-dimensional case. (English summary) **99c:11104**
— *see also* **Downarowicz, Tomasz, 99i:11015**
Lesigne, Emmanuel Convergence d'une suite le long de sous-suites d'indices à croissance exponentielle. (English summary) [Convergence of a sequence along subsequences of indices with exponential growth] **99h:60065**
Major, P. Almost sure functional limit theorems. I. The general case. (English summary) **99h:60074**
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Matsudo, Mie *see* **Matsui, Mai, 99k:58114**
Matsui, Mai (*with* Matsudo, Mie) Dynamical systems for the Frobenius-Perron operator. **99k:58114**
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Mendivil, Franklin *see* **Forte, B., 99d:58103**
Milnes, Paul Some graphic flows that are not proximal orbit dense. (English summary) **99c:54059**
Nair, Radhakrishnan On metric Diophantine approximation and subsequence ergodic theory. (English summary) **99b:11088**
Nuñez Jimenez, Carmen (*with* Obaya García, Rafael) Nontangential limit of the Weyl m-functions for the ergodic Schrödinger equation. (English summary) **99g:58078**
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Pollicott, Mark (*with* Sharp, Richard; Yuri, Michiko) Large deviations for maps with indifferent fixed points. (English summary) **99j:58131**
— (*with* Yuri, Michiko) Regularity of solutions to the measurable Livsic equation. (English summary) **99d:58110**
Raugi, Albert Théorème ergodique multiplicatif. Produits de matrices aléatoires indépendantes. (English and French summaries) [Multiplicative ergodic theorem. Products of independent random matrices] **99e:60028**
Rodríguez-Salinas, Baltasar Uniformly countably additive families of measures and group invariant measures. (English summary) **99j:28011**
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Ruch, Jean-Jacques Étude de moyennes pondérées de sommes de Riemann. (English summary) [Study of weighted means of Riemann sums] **99e:60099**
Ryzhikov, V. V. On the asymmetry of cascades. (Russian) **99f:58131**
Schmidt, Klaus[1] Tilings, fundamental cocycles and fundamental groups of symbolic $\mathbf{Z}^d$-actions. (English summary) **99j:58068**
Schwartz, Peter O. *see* **Akcoglu, Mustafa A.; et al., 99a:60048**
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Shaw, Sen-Yen Abstract ergodic theorems. (English summary) **99d:47009**
Shin, Sujin *see* **Choe, Geon Ho, 99f:54052**
Siboni, S. Some applications of symbolic dynamics techniques to toral skew endomorphisms. (English summary) **99f:58132**
Sidorov, Nikita (*with* Vershik, Anatoliĭ Moiseevich) Bijective arithmetic codings of hyperbolic automorphisms of the 2-torus, and binary quadratic forms. (English summary) **99g:58095**
Silvestrov, Dmitrii S. (*with* Stenflo, Örjan) Ergodic theorems for iterated function systems controlled by regenerative sequences. (English summary) **99j:60100**
Simon, Károly (*with* Solomyak, Boris) Correlation dimension for self-similar Cantor sets with overlaps. (English summary) **99g:28036**

Słomczyński, Wojciech Subadditive ergodic theorems in $C(X)$. (English summary) **99m:47008**
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Volný, Dalibor Invariance principles and Gaussian approximation for strictly stationary processes. (English summary) **99m:60062**
V'yugin, V. V. Ergodic convergence in probability, and an ergodic theorem for individual random sequences. (Russian. Russian summary) **99e:60073**
— Ergodic theorems for individual random sequences. (English summary) **99k:68086**
Winkler, Reinhard Distribution preserving sequences of maps and almost constant sequences on finite sets. (English summary) **99h:11088**
Xu, Shaogang An ergodic process of zero divergence-distance from the class of all stationary processes. (English summary) **99c:60079**
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Zeitouni, Ofer *see* **Dembo, Amir**, **99k:60072**
Zweimüller, Roland Ergodic structure and invariant densities of non-Markovian interval maps with indifferent fixed points. (English summary) **99e:58125**

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De Sam Lazaro, José *see* **Lemańczyk, Mariusz**, **99k:28022**
Hamachi, T. Suborbits and group extensions of flows. (English summary) **99f:28028**
— Correction to: "Suborbits and group extensions of flows" [Israel J. Math. **100** (1997), 249–283; MR 99f:28028]. (English summary) **99m:28039**
Lemańczyk, Mariusz (*with* De Sam Lazaro, José) Spectral analysis of certain compact factors for Gaussian dynamical systems. (English summary) **99k:28022**
Savchenko, S. V. Special flows constructed from countable topological Markov chains. (Russian. Russian summary) **99m:28040**

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Balibrea Gallego, Francisco (*with* Linero, Antonio) Existence of invariant measures associated with certain one-parameter families. (Spanish) **99j:58119**
Beukers, Frits (*with* Cushman, Richard) Zeeman's monotonicity conjecture. (English summary) **99c:58054**
Cushman, Richard *see* **Beukers, Frits**, **99c:58054**
Fox, Ronald F. Construction of the Jordan basis for the baker map. (English summary) **99d:58104**
Imkeller, Peter On the laws of the Oseledets spaces of linear stochastic differential equations. **99h:60120**
Johnson, Russell A. An application of topological dynamics to bifurcation theory. (English summary) **99c:34073**
Jones, Roger L. (*with* Lin, Michael; Olsen, James) Weighted ergodic theorems along subsequences of density zero. (English summary) **99d:47008**
Kager, Gerald (*with* Scheutzow, Michael K. R.) Generation of one-sided random dynamical systems by stochastic differential equations. (English summary) **99b:60080**
Kamiński, Brunon (*with* Kowalski, Zbigniew S.) On extremal and perfect σ-algebras for flows. (English summary) **99f:28031**
Kowalski, Zbigniew S. *see* **Kamiński, Brunon**, **99f:28031**
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Linero, Antonio *see* **Balibrea Gallego, Francisco**, **99j:58119**
Mitin, A. V. Undecidability of the elementary theory of groups of measure-preserving transformations. (Russian. Russian summary) **99d:20001**
Novo, Sylvia (*with* Obaya García, Rafael) An ergodic and topological approach to almost periodic bidimensional linear systems. (English summary) **99g:58076**
— (*with* Obaya García, Rafael) On the dynamical behaviour of an almost periodic linear system with an ergodic 2-sheet studied by R. Johnson. (English summary) **99g:58077**
Obaya García, Rafael *see* **Novo, Sylvia**, **99g:58076** *and* **99g:58077**
Olsen, James *see* **Jones, Roger L.; et al.**, **99d:47008**
Rakhimberdiev, M. I. (*with* Smirnov, T. I.) On the properties of linear extensions of shifts on a torus that are close to ergodic. (Russian. English, Russian and Kazakh summaries) **99h:58111**
Rom-Kedar, Vered *see* **Turaev, D. V.**, **99h:58113**
Scheutzow, Michael K. R. (*with* von Weizsäcker, Heinrich) Which moments of a logarithmic derivative imply quasiinvariance? (English summary) **99i:60093**
— *see also* **Kager, Gerald**, **99b:60080**
Smirnov, T. I. *see* **Rakhimberdiev, M. I.**, **99h:58111**
Turaev, D. V. (*with* Rom-Kedar, Vered) On smooth Hamiltonian flows limited to ergodic billiards. (English summary) **99h:58113**
Vorobets, Ya. B. Billiards in rational polygons: periodic trajectories symmetries and d-stability. (Russian. Russian summary) **99d:58112**
von Weizsäcker, Heinrich *see* **Scheutzow, Michael K. R.**, **99i:60093**

28D15 General groups of measure-preserving transformations

Adams, Scot Another proof of Moore's ergodicity theorem for SL(2, **R**). **99a:28019**
Ageev, O. N. Dynamical systems with an arbitrary spectral multiplicity function. (Russian)
Dooley, Anthony H. (*with* Klemeš, Ivo; Quas, Anthony N.) Product and Markov measures of type III. (English summary) **99h:28039**
Feldman, Jacob[1] Uncountably many Vershik-inequivalent group actions of equal entropy. (English summary) **99b:28018**
Glasner, Eli (*with* Weiss, Benjamin) Kazhdan's property T and the geometry of the collection of invariant measures. (English summary) **99f:28029**
— (*with* King, Jonathan L.) A zero-one law for dynamical properties. (English summary) **99d:28039**
Hawkins, Jane (*with* Silva, Cesar E.) Characterizing mildly mixing actions by orbit equivalence of products. (English summary) **99b:28019**
Johnson, Aimee S. A. (*with* Şahin, Ayşe Arzu) Finite rank $\mathbf{Z}^d$ actions and the loosely Bernoulli property. (English summary) **99b:28020**
Kamae, Teturo Linear expansions, strictly ergodic homogeneous cocycles and fractals. (English summary) **99m:28041**
Kammeyer, Janet Whalen (*with* Rudolph, Daniel J.) Restricted orbit equivalence for ergodic $\mathbf{Z}^d$ actions. I. (English summary) **99c:28057**
King, Jonathan L. *see* **Glasner, Eli**, **99d:28039**
Klemeš, Ivo *see* **Dooley, Anthony H.; et al.**, **99h:28039**
Lacey, Michael T. The return time theorem fails on infinite measure-preserving systems. (English and French summaries) **99d:28040**
Madden, Kathleen M. The giant spiral. (English summary) **99f:28030**
Morris, Gary David (*with* Ward, Thomas B.) A note on mixing properties of invertible extensions. (English summary) **99j:28018**
Nevo, Amos Spectral transfer and pointwise ergodic theorems for semi-simple Kazhdan groups. (English summary) **99e:28030**
Quas, Anthony N. *see* **Dooley, Anthony H.; et al.**, **99h:28039**
Rudolph, Daniel J. Residuality and orbit equivalence. (English summary) **99d:28041**
— *see also* **Kammeyer, Janet Whalen**, **99c:28057**
Şahin, Ayşe Arzu *see* **Johnson, Aimee S. A.**, **99b:28020**
Silva, Cesar E. *see* **Hawkins, Jane**, **99b:28019**
Svetic, R. E. A function with locally uncountable rotation set. (English summary) **99k:28023**
Ward, Thomas B. Three results on mixing shapes. (English summary) **99e:28031**
— *see also* **Morris, Gary David**, **99j:28018**
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Items with secondary classifications in 28D15

Becker, Howard Polish group actions: dichotomies and generalized elementary embeddings. (English summary) **99g:03051**
Burton, Robert M., Jr. (*with* Steif, Jeffrey E.) Coupling surfaces and weak Bernoulli in one and higher dimensions. (English summary) **99c:28043**
Chothi, V. (*with* Everest, G. R.; Ward, Thomas B.) S-integer dynamical systems: periodic points. (English summary) **99b:11089**
Everest, G. R. *see* **Chothi, V.; et al.**, **99b:11089**
Fujiwara, Koji (*with* Nevo, Amos) Maximal and pointwise ergodic theorems for word-hyperbolic groups. (English summary) **99j:22006**
Gabriel, Patrick (*with* Lemańczyk, Mariusz; Schmidt, Klaus[1]) Extensions of cocycles for hyperfinite actions and applications. (English summary) **99a:28015**
Kamiński, Brunon (*with* Park, Kyewon Koh) On the directional entropy for $\mathbf{Z}^2$-actions on a Lebesgue space. (English summary) **99k:28024**
Kechris, Alexander S. Rigidity properties of Borel ideals on the integers. (English summary) **99k:03040**
Knill, Oliver Singular continuous spectrum and quantitative rates of weak mixing. (English summary) **99c:28050**
Lemańczyk, Mariusz *see* **Gabriel, Patrick; et al.**, **99a:28015**
Martins Girão, Pedro (*with* Sousa Ramos, J.) Algebraic results on Markov shifts of torus automorphisms. (English summary) (*see* **99d:00015**)
Nevo, Amos *see* **Fujiwara, Koji**, **99j:22006**
Park, Kyewon Koh Discrete proof of even Kakutani equivalence via α- and β-equivalence. (English summary) **99e:28027**
— *see also* **Kamiński, Brunon**, **99k:28024**
Robertson, A. Guyan (*with* Steger, Tim) Negative definite kernels and a dynamical characterization of property (T) for countable groups. (English summary) **99c:22008**
Sarreira, Mário (*with* Sousa Ramos, J.) Markov shifts in complex dynamical systems. (English summary) (*see* **99d:00015**)
Sato, Ryotaro Vector-valued ergodic theorems for multiparameter additive processes. (English summary) **99m:47007**
— On a vector-valued local ergodic theorem in L_∞. (English summary) **99m:47006**
Schmidt, Klaus[1] *see* **Gabriel, Patrick; et al.**, **99a:28015**
Sousa Ramos, J. *see* **Martins Girão, Pedro**, (**99d:00015**) *and* **Sarreira, Mário**, (**99d:00015**)
Steger, Tim *see* **Robertson, A. Guyan**, **99c:22008**
Steif, Jeffrey E. *see* **Burton, Robert M., Jr.**, **99c:28043**
Ward, Thomas B. *see* **Chothi, V.; et al.**, **99b:11089**
Xia, Jingbo C^*-algebras of singular integral operators and Toeplitz operators associated with measure-preserving transformations. (English summary) **99c:47068**

28D20 Entropy and other invariants

Balibrea Gallego, Francisco (*with* Cánovas Peña, José Salvador; Jiménez López, Víctor) Some results on sequential entropy. (Spanish. Spanish summary) (*see* **99d:00018**)
Barreira, Luis M. Dimension of Cantor sets with complicated geometry. (English summary) (*see* **99d:00015**)
Burton, Robert M., Jr. (*with* Dajani, Karma; Meester, Ronald) Entropy for random group actions. (English summary) **99b:28021**
Cánovas Peña, José Salvador *see* **Balibrea Gallego, Francisco; et al.**, (**99d:00018**)
Dajani, Karma *see* **Burton, Robert M., Jr.; et al.**, **99b:28021**
Jiménez López, Víctor *see* **Balibrea Gallego, Francisco; et al.**, (**99d:00018**)
Kamiński, Brunon (*with* Kowalski, Zbigniew S.) On extremal and perfect σ-algebras for flows. (English summary) **99f:28031**
— (*with* Park, Kyewon Koh) On the directional entropy for $\mathbf{Z}^2$-actions on a Lebesgue space. (English summary) **99k:28024**
Kondah, Abdelaziz (*with* Maume, Véronique; Schmitt, Bernard) Vitesse de convergence vers l'état d'équilibre pour des dynamiques markoviennes non höldériennes. (English and French summaries) [Rate of convergence to equilibrium for non-Hölder Markov dynamics] **99e:28032**
Kowalski, Zbigniew S. *see* **Kamiński, Brunon**, **99f:28031**
Masani, P. R. Relative entropy as a countably-additive measure. (English summary) **99b:28022**

Maume, Véronique *see* **Kondah, Abdelaziz; et al., 99e:28032**
Meester, Ronald *see* **Burton, Robert M., Jr.; et al., 99b:28021**
Morris, Gary David (*with* Ward, Thomas B.) Entropy bounds for endomorphisms commuting with K actions. (English summary) **99m:28042**
Park, Kyewon Koh *see* **Kamiński, Brunon, 99k:28024**
Schmitt, Bernard *see* **Kondah, Abdelaziz; et al., 99e:28032**
Simon, Károly (*with* Solomyak, Boris) Correlation dimension for self-similar Cantor sets with overlaps. (English summary) **99g:28036**
Solomyak, Boris *see* **Simon, Károly, 99g:28036**
Takens, Floris (*with* Verbitskiĭ, E. A.) Generalized entropies: Rényi and correlation integral approach. (English summary) **99b:28023**
Verbitskiĭ, E. A. *see* **Takens, Floris, 99b:28023**
Ward, Thomas B. *see* **Morris, Gary David, 99m:28042**

Items with secondary classifications in 28D20

Alicki, Robert Quantum mechanical tools in applications to classical dynamical systems. (English summary) **99g:82050**
Bahnmüller, Jörg (*with* Liu, Pei-Dong) Characterization of measures satisfying the Pesin entropy formula for random dynamical systems. (English summary) **99j:58118**
Barreira, Luis M. The dimension theory of hyperbolic dynamics. (English summary) (*see* **99d:00015**)
Buzzi, Jérôme Ergodicité intrinsèque de produits fibrés d'applications chaotiques unidimensionelles. (English and French summaries) [Intrinsic ergodicity of pullbacks of one-dimensional chaotic maps] **99g:58072**
Carvalho, Maria Conceiçaõ Vieira Contributions to a rigidity conjecture. (English summary) **99j:58120**
Fannes, Mark Using density matrices in classical dynamical systems. **99k:82010**
Feldman, Jacob[1] Uncountably many Vershik-inequivalent group actions of equal entropy. (English summary) **99b:28018**
Geller, William (*with* Pollicott, Mark) An entropy for $\mathbf{Z}^2$-actions with finite entropy generators. (English summary) **99h:58105**
Golodets, Valentin Ya. (*with* Størmer, Erling) Entropy of C^*-dynamical systems defined by bitstreams. (English summary) **99m:46157**
Haagerup, Uffe (*with* Størmer, Erling) Maximality of entropy in finite von Neumann algebras. (English summary) **99c:46069**
Jiang, Yunping Geometry of Cantor systems. (English summary) **99h:58107**
Johnson, Aimee S. A. (*with* Şahin, Ayşe Arzu) Finite rank $\mathbf{Z}^d$ actions and the loosely Bernoulli property. (English summary) **99b:28020**
Katok, A. (*with* Mezhirov, A.) Entropy and growth of expanding periodic orbits for one-dimensional maps. (English summary) **99g:58103**
Khare, Mona Fuzzy σ-algebras and conditional entropy. (English summary) **99k:28025**
Knill, Oliver Singular continuous spectrum and quantitative rates of weak mixing. (English summary) **99c:28050**
Komori, Yohei Monotonicity of entropy for some real quadratic rational maps. (English summary) **99b:58081**
Kozlovskiĭ, O. S. An integral formula for topological entropy of C^∞ maps. (English summary) **99j:58126**
Liu, Pei-Dong *see* **Bahnmüller, Jörg, 99j:58118**
Mezhirov, A. *see* **Katok, A., 99g:58103**
Ohya, Masanori Foundation of entropy, complexity and fractals in quantum systems. (English summary) **99h:82006**
Park, Yong Moon (*with* Shin, Hyun Hye) Dynamical entropy of generalized quantum Markov chains over infinite-dimensional algebras. (English summary) **99a:82011**
Pollicott, Mark *see* **Geller, William, 99h:58105**
Raith, Peter The dynamics of piecewise monotonic maps under small perturbations. (English summary) **99d:58111**
Rudolph, Daniel J. Residuality and orbit equivalence. (English summary) **99d:28041**
Şahin, Ayşe Arzu *see* **Johnson, Aimee S. A., 99b:28020**
Serafin, J. The finitary coding of two Bernoulli schemes with unequal entropies has finite expectation. (English summary) **99h:28038**
Shin, Hyun Hye *see* **Park, Yong Moon, 99a:82011**
Størmer, Erling *see* **Haagerup, Uffe, 99c:46069** *and* **Golodets, Valentin Ya., 99m:46157**
Sun, Wenxiang Measure-theoretic entropy for flows. (English summary) **99b:58150**
Takens, Floris *see* **Verbitskiĭ, E. A., 99k:58115**
Tuyls, P. Comparing quantum dynamical entropies. (English summary) **99k:46122**
Verbitskiĭ, E. A. (*with* Takens, Floris) Generalized entropies. (Russian) **99k:58115**
Ward, Thomas B. A family of Markov shifts (almost) classified by periodic points. (English summary) **99j:11089**

28D99 None of the above, but in this section

Bugeaud, Yann (*with* Weber, Michel Jean Georges) Examples and counterexamples for Riemann sums. (English summary) **99h:28040**
Çömez, Doğan Convergence of moving averages of multiparameter superadditive processes. (English summary) **99f:28032**
Dooley, Anthony H. (*with* Fan, Ai Hua) Chains of Markovian projections and (G, Γ)-measures. (English summary) **99c:28058**
Eigen, Stanley (*with* Hajian, Arshag; Weiss, Benjamin) Borel automorphisms with no finite invariant measure. (English summary) **99b:28024**
Fan, Ai Hua *see* **Dooley, Anthony H., 99c:28058**
Hajian, Arshag *see* **Eigen, Stanley; et al., 99b:28024**
Máté, László On infinite composition of affine mappings. (English summary) **99m:28043**
Michaille, Gérard (*with* Michel, Julien) The subadditive ergodic theorem and some random problems in mechanics. (English summary) (*see* **99a:00038**)
Michel, Julien *see* **Michaille, Gérard, (99a:00038)**
Murray, Rua Approximation error for invariant density calculations. (English summary) **99e:28033**
Ramsay, Arlan Lacunary sections for locally compact groupoids. (English summary) **99c:28059**
Weber, Michel Jean Georges *see* **Bugeaud, Yann, 99h:28040**
Weiss, Benjamin *see* **Eigen, Stanley; et al., 99b:28024**

Items with secondary classifications in 28D99

Arnold, Ludwig Trends and open problems in the theory of random dynamical systems. **99i:60131**
— (*with* Chueshov, Igor D.) Order-preserving random dynamical systems: equilibria, attractors, applications. (English summary) **99i:58096**
Auslander, Louis (*with* Barbano, Paolo Emilio) Communication codes and Bernoulli transformations. (English summary) **99j:94021**
Barbano, Paolo Emilio *see* **Auslander, Louis, 99j:94021**
Bardaro, Carlo (*with* Musielak, Julian; Vinti, Gianluca) On the ergodic theorem in some spaces of random variables. **99d:46005**
Belitskiĭ, G. R. (*with* Lyubich, Yu. I.) On the normal solvability of cohomological equations on compact topological spaces. (English summary) **99h:58103**
Bermúdez, Teresa (*with* González, Manuel; Mbekhta, Mostafa) Local ergodic theorems. **99k:47018**
Blokh, A. M. (*with* Mayer, John C.; Oversteegen, Lex G.) Recurrent critical points and typical limit sets of rational maps. (English summary) **99f:58169**
Buzzi, Jérôme Intrinsic ergodicity of smooth interval maps. (English summary) **99g:58071**
Candeloro, Domenico Some remarks on the first digit problem. **99k:60047**
Choe, Geon Ho (*with* Kim, Chihurn; Kim, Dong Han) Applications of ergodic theory to pseudorandom numbers. (English summary) **99d:11084**
Chueshov, Igor D. *see* **Arnold, Ludwig, 99i:58096**
Dani, S. G. Actions on spaces of measures on Lie groups and convergence of types. **99i:22002**
Denker, Manfred (*with* Mauldin, R. Daniel; Nitecki, Z.; Urbański, Mariusz) Conformal measures for rational functions revisited. (English summary) **99j:58122**
Enriquez, Nathanaël (*with* Le Jan, Yves) Statistic of the winding of geodesics on a Riemann surface with finite area and constant negative curvature. (English summary) **99f:58221**
Ferrando, Sebastian Upcrossing inequalities for powers of nonlinear operators and Chacon processes. (English summary) **99e:47015**
Fitzsimmons, P. J. The quasi-sure ratio ergodic theorem. (English and French summaries) **99h:60147**
Froyland, Gary Approximating physical invariant measures of mixing dynamical systems in higher dimensions. **99d:58105**
Geng, Xiang Yi *see* **Jia, Bao Guo**
González, Manuel *see* **Bermúdez, Teresa; et al., 99k:47018**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean B.) Ergodic theorems and ergodic decomposition for Markov chains. (English summary) **99m:60104**
Jenvey, E. Strong stationarity and de Finetti's theorem. (English summary) **99h:60076**
Jia, Bao Guo (*with* Geng, Xiang Yi) The Hausdorff dimension of chaos sets of a finite subshift system. (Chinese. English and Chinese summaries)
Jurečková, Mária Convergence and the limit theorems for z-representable observables in D-posets. (English summary) **99j:06007**
Keane, Michael S. (*with* Murray, Rua; Young, Lai-Sang) Computing invariant measures for expanding circle maps. (English summary) **99a:58106**
Keller, Gerhard A new estimator for information dimension with standard errors and confidence intervals. (English summary) **99e:62169**
Kim, Chihurn *see* **Choe, Geon Ho; et al., 99d:11084**
Kim, Dong Han *see* **Choe, Geon Ho; et al., 99d:11084**
Kirtadze, A. P. (*with* Pantsulaya, G. R.) On uniquely definable extensions of invariant measures in the space $\mathbf{R}^N$. (Russian. English and Georgian summaries)
Lasserre, Jean B. *see* **Hernández-Lerma, Onésimo, 99m:60104**
Le Jan, Yves *see* **Enriquez, Nathanaël, 99f:58221**
Li, Shoumei (*with* Ogura, Yukio) Convergence of set valued sub- and supermartingales in the Kuratowski-Mosco sense. (English summary) **99i:60021**
Lyubich, Yu. I. *see* **Belitskiĭ, G. R., 99h:58103**
Mauldin, R. Daniel *see* **Denker, Manfred; et al., 99j:58122**
Mayer, John C. *see* **Blokh, A. M.; et al., 99f:58169**
Mbekhta, Mostafa *see* **Bermúdez, Teresa; et al., 99k:47018**
Morawiec, Janusz Some properties of probability distribution solutions of linear functional equations. (English summary) **99m:39021**
Murray, Rua *see* **Keane, Michael S.; et al., 99a:58106**
Musielak, Julian *see* **Bardaro, Carlo; et al., 99d:46005**
Nitecki, Z. *see* **Denker, Manfred; et al., 99j:58122**
Nuñez Jimenez, Carmen Time averages for continuous functions on distal flows. (English summary) **99i:54054**
Ogura, Yukio *see* **Li, Shoumei, 99i:60021**
Oversteegen, Lex G. *see* **Blokh, A. M.; et al., 99f:58169**
Pantsulaya, G. R. *see* **Kirtadze, A. P.**
Ruch, Ernst (*with* Stulpe, Werner) Proof of the mixing theorem for statistical systems in classical physics. (English summary) **99m:46177**
Sato, Ryotaro Vector valued differentiation theorems for multiparameter additive processes in L_p spaces. (English summary) **99m:47005**
Schmalfuß, Björn A random fixed point theorem and the random graph transformation. (English summary) **99i:47118**
Shields, Paul C. The interactions between ergodic theory and information theory. (English summary) **99i:94025**
Shimomura, Hiroaki 1-cocycles on infinite-dimensional spaces. **99k:58013**
Stulpe, Werner *see* **Ruch, Ernst, 99m:46177**
Urbański, Mariusz Geometry and ergodic theory of conformal non-recurrent dynamics. (English summary) **99j:58178**
— *see also* **Denker, Manfred; et al., 99j:58122**
Vinti, Gianluca *see* **Bardaro, Carlo; et al., 99d:46005**
Waliszewska, Anna On diffeomorphic actions on Cantor sets. **99j:58069**
Wu, Jang-Mei Doubling measures with different bases. **99e:28005**
Young, Lai-Sang *see* **Keane, Michael S.; et al., 99a:58106**

28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

Borde, Pascal Strongly near-standard functions in Lebesgue's spaces. (English summary) **99j:28019**
Ross, David A. Loeb measure and probability. **99d:28042**
Sun, Yeneng A theory of hyperfinite processes: the complete removal of individual uncertainty via exact LLN. (English summary) **99j:28020**
Zimmer, G. Beate An extension of the Bochner integral generalizing the Loeb-Osswald integral. **99a:28020**

Items with secondary classifications in 28E05

Benedikt, Michael A. Ultrafilters which extend measures. (English summary) **99m:03133**
Schilling, Kenneth Vanishing Borel sets. **99i:03086**

28E10 Fuzzy measure theory [see also 04A72, 26E50, 94D05]

Ban, A. I. Existence of finitely additive nontrivial T-measures on the family of all fuzzy set on a set. (English summary) **99m:28044**
Che, Zhao Dong *see* **Song, Shiji; et al., 99i:28026**
Cho, Sung-Jin (*with* Lee, Byung Soo; Lee, Gue Myung; Kim, Do Sang; Song, Yeoul-Ouk) Fubini theorem for generalized fuzzy number-valued integrals. (English summary)
Du, Wen *see* **Zhang, Qiang[2]; et al., 99k:28030**
Duchoň, Miloslav (*with* Kolesárová, Anna) Fourier transforms of vector measures on some semigroups. (English summary) **99j:28021**
Fujimoto, Katsushige (*with* Murofushi, Toshiaki; Sugeno, Michio) Canonical hierarchical decomposition of Choquet integral over finite set with respect to null additive fuzzy measure. (English summary) **99j:28022**
— *see also* **Murofushi, Toshiaki; et al., 99i:28025**
Gil, María Angeles *see* **López-Díaz, Miguel, 99k:28027**
Grabisch, Michel Fuzzy integral as a flexible and interpretable tool of aggregation. (English summary) (*see* **99e:04005**)
Guo, Cai Mei (*with* Zhang, De Li; Wu, Cong Xin) Fuzzy-valued fuzzy measures and generalized fuzzy integrals. (English summary) **99h:28041**
— (*with* Zhang, De Li) Fuzzy-number fuzzy measures and fuzzy integrals. (Chinese. English and Chinese summaries)
— *see also* **Wu, Cong Xin; et al.**
Gyiman, Carmen *see* **Tomescu, Marius, (99i:00014)**
Ji, Ai Bing (*with* Zhang, Yan E; Sun, Jian Ping) Fuzzy measures on locally compact spaces. (Chinese. English and Chinese summaries)
Khare, Mona Fuzzy σ-algebras and conditional entropy. (English summary) **99k:28025**
Kim, Do Sang *see* **Cho, Sung-Jin; et al.**
Klement, Erich Peter (*with* Navara, Mirko) A characterization of tribes with respect to the Łukasiewicz t-norm. (English summary) **99c:28060**
Kolesárová, Anna *see* **Duchoň, Miloslav, 99j:28021**
Lee, Byung Soo *see* **Cho, Sung-Jin; et al.**
Lee, Gue Myung *see* **Cho, Sung-Jin; et al.**
Li, Lushu (*with* Sheng, Zhaohan) The fuzzy set-valued measures generated by fuzzy random variables. (English summary) **99i:28024**
Li, Xiao-ping *see* **Wang, Gui Jun**
Liu, Yian-Kui (*with* Zhang, Guang-Quan) On the completeness of fuzzy measure-space. (English summary) **99k:28026**
López-Díaz, Miguel (*with* Gil, María Angeles) An extension of Fubini's theorem for fuzzy random variables. (English summary) **99k:28027**
Markechová, D. *see* **Riečan, Beloslav, 99d:28043**
Marková-Stupňanová, Andrea (*with* Riečan, Beloslav) On the double g-integral. (English summary) **99a:28021**
Mesiar, Radko (*with* Pap, Endre) On additivity and pseudo-additivity of a pseudo-additive measure based integral. (English summary) **99b:28025**
— (*with* Rybárik, Ján) Entropy of fuzzy partitions: a general model. (English summary)
— Generalizations of k-order additive discrete fuzzy measures. (English summary) **99m:28045**
Murofushi, Toshiaki (*with* Fujimoto, Katsushige; Sugeno, Michio) Canonical separated hierarchical decomposition of the Choquet integral over a finite set. (English summary) **99i:28025**
— *see also* **Sugeno, Michio; et al., 99i:28027** *and* **Fujimoto, Katsushige; et al., 99j:28022**
Narukawa, Yasuo *see* **Sugeno, Michio; et al., 99i:28027**
Navara, Mirko *see* **Klement, Erich Peter, 99c:28060**
Pap, Endre Nikodým type theorems. (English summary) **99b:28026**
— *see also* **Mesiar, Radko, 99b:28025**
Qiao, Xiao Lin *see* **Song, Shiji; et al., 99i:28026**
Riečan, Beloslav (*with* Markechová, D.) The Kolmogorov-Sinaj theorem on generators for fuzzy dynamical systems. **99d:28043**
— *see also* **Marková-Stupňanová, Andrea, 99a:28021**
Rybárik, Ján *see* **Mesiar, Radko**
Sheng, Zhaohan *see* **Li, Lushu, 99i:28024**
Song, Shiji (*with* Qiao, Xiao Lin; Zhang, Jiewu; Che, Zhao Dong) The convergency of (DG) fuzzy integrals on L-fuzzy sets. (English summary) **99i:28026**
Song, Yeoul-Ouk *see* **Cho, Sung-Jin; et al.**
Stojaković, Mila Representation of fuzzy-valued mappings by the sequence of single-valued mappings. (English summary)
Sugeno, Michio (*with* Narukawa, Yasuo; Murofushi, Toshiaki) Choquet integral and fuzzy measures on locally compact space. (English summary) **99i:28027**
— *see also* **Murofushi, Toshiaki; et al., 99i:28025** *and* **Fujimoto, Katsushige; et al., 99j:28022**
Sun, Jian Ping *see* **Ji, Ai Bing; et al.**
Tomescu, Marius (*with* Gyiman, Carmen) Fuzzy integrals defined by T-norm. (English and Romanian summaries) (*see* **99i:00014**)
Wang, Gui Jun The interval-valued fuzzy measure. (English summary)
— (*with* Li, Xiao-ping) Absolute continuity of K-pseudo-additive fuzzy integrals. (Chinese. English and Chinese summaries)
Wang, Li She Null additivity and autocontinuity of sums and products of fuzzy-valued fuzzy measures. (Chinese. English and Chinese summaries)
Wang, Shu Li *see* **Zhang, Jian Ming, 99k:28029**
Wang, Xiaomin[2] *see* **Xue, Xiao Ping[1]; et al., 99k:28028**
Wu, Cong *see* **Wu, Cong Xin; et al.**
Wu, Cong Xin (*with* Zhang, De Li; Guo, Cai Mei; Wu, Cong) Fuzzy number fuzzy measures and fuzzy integrals. I. Fuzzy integrals of functions with respect to fuzzy number fuzzy measures. (English summary)
— (*with* Zhang, De Li; Zhang, Bokan; Guo, Cai Mei) Fuzzy number fuzzy measures and fuzzy integrals. II. Fuzzy integrals of fuzzy-valued functions with respect to fuzzy number fuzzy measures on fuzzy sets. (English summary)
— *see also* **Guo, Cai Mei; et al., 99h:28041**
Wu, Lizhong *see* **Xue, Xiao Ping[1]; et al., 99k:28028**
Xu, Yang *see* **Zhang, Qiang[2]; et al., 99k:28030**
Xue, Xiao Ping[1] (*with* Wang, Xiaomin[2]; Wu, Lizhong) On the convergence and representation of random fuzzy number integrals. (English summary) **99k:28028**
Zhang, Bokan *see* **Wu, Cong Xin; et al.**
Zhang, De Li *see* **Guo, Cai Mei; et al., 99h:28041**; **Wu, Cong Xin; et al.**
Zhang, Guang-Quan *see* **Liu, Yian-Kui, 99k:28026**
Zhang, Jian Ming (*with* Wang, Shu Li) Fuzzy measures defined by (G) fuzzy integrals. (Chinese. English and Chinese summaries) **99k:28029**
Zhang, Jiewu *see* **Song, Shiji; et al., 99i:28026**
Zhang, Qiang[2] (*with* Xu, Yang; Du, Wen) Lebesgue decomposition theorem for σ-finite signed fuzzy measures. (English summary) **99k:28030**
Zhang, Yan E *see* **Ji, Ai Bing; et al.**

Items with secondary classifications in 28E10

(Chovanec, Ferdinand) *see* **Riečan, Beloslav, 99e:28001**
Ebanks, Bruce R. Localizable composable measures of fuzziness. (English summary) **99c:04006**
Ferrari, Paola (*with* Savoia, Marco) Fuzzy number theory to obtain conservative results with respect to probability. (English summary)
Gudder, Stanley Fuzzy probability theory. (English summary) **99e:60010**
(Kirchheimová, Hana) *see* **Riečan, Beloslav, 99e:28001**
Kleyle, R. *see* **de Korvin, Andre, 99f:60007**
(Kôpka, František) *see* **Riečan, Beloslav, 99e:28001**
de Korvin, Andre (*with* Kleyle, R.) A note on fuzzy conditional expectation. (English summary) **99f:60007**
Kramosil, Ivan Dempster combination rule for signed belief functions. (English summary) **99e:68153**
Li, Shoumei (*with* Ogura, Yukio) Convergence theorems for set valued and fuzzy valued martingales and smartingales. (English summary) **99k:60024**
Marková-Stupňanová, Andrea A note on the idempotent functions with respect to pseudo-convolution. (English summary) **99k:26031**
Neubrunn, Tibor *see* **Riečan, Beloslav, 99e:28001**
Ogura, Yukio *see* **Li, Shoumei, 99k:60024**
Pap, Endre The continuity of the null-additive fuzzy measures. (English summary) **99m:28009**
— The Lebesgue decomposition theorem for generalized measures. (English summary) **99m:28029**
Pham, T. D. (*with* Yan, Hong) A quasi-linear fuzzy measure of multi-attributes. (English summary) **99c:92068**
Pyt'ev, Yu. P. Foundations of possibility theory. Methods for optimal estimation and decision making. V. Fuzzy elements, independence and conditional distributions. (Russian. Russian summary)
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Integral, measure, and ordering. (English summary) **99e:28001**
(Riečanová, Zdenka) *see* **Riečan, Beloslav, 99e:28001**
Savoia, Marco *see* **Ferrari, Paola**
Wu, Hsien-Chung The improper fuzzy Riemann integral and its numerical integration. (English summary) **99j:26012**
Yan, Hong *see* **Pham, T. D., 99c:92068**

28E15 Other connections with logic and set theory

Items with secondary classifications in 28E15

Dubins, Lester E. (*with* Prikry, Karel) On the existence of disintegrations. (English summary) **99m:28013**
Fernández Novoa, J. Moderation of sigma-finite Borel measures. (English summary) **99c:28037**
Prikry, Karel *see* **Dubins, Lester E., 99m:28013**

28E99 None of the above, but in this section

Mesiar, Radko (*with* Pap, Endre) Idempotent integral as limit of g-integrals. (English summary) **99m:28046**
Pap, Endre *see* **Mesiar, Radko, 99m:28046**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

Items listed otherwise than by author

Problems:

Theory of functions of a complex variable Some open problems in theory of functions of a complex variable.

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chatterji, Srishti D. ★ Cours d'analyse. 2. (French. French summary) [Analysis course. 2] **99a:30001**
Lang, Serge ★ Complex analysis. (English summary) **99i:30001**
Osborne, Anthony D. ★ Complex variables and their applications. (English summary)
Sarason, Donald ★ Notes on complex function theory. (English summary)
Savel'ev, L. Ya. Complex numbers. (Russian) (*see* **99d:00010**)

Items with secondary classifications in 30–01

(Pierzchalski, Antoni) *see* **Rudin, Walter**, **99g:00008**
Rudin, Walter ★ Analiza rzeczywista i zespolona. (Polish. Polish summary) [Real and complex analysis] **99g:00008**
(Walczak, Paweł) *see* **Rudin, Walter**, **99g:00008**

30–02 Research exposition (monographs, survey articles)

Koosis, Paul ★ The logarithmic integral. I. (English summary) **99j:30001**
(Pankrat'ev, E. V.) *see* **Suetin, P. K.**, **99m:30001**
Suetin, P. K. ★ Series of Faber polynomials. (English summary) **99m:30001**

Items with secondary classifications in 30–02

Van Lancker, P. Clifford analysis on the sphere. (English summary) **99i:30068**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Jurchescu, Martin The concept of global analytic function and Riemann surface in Stoilow's work. (*see* **99h:00035**)
Mitrea, Marius (*with* Şabac, Florin) Pompeiu's integral representation formula. History and mathematics. (English summary) **99k:30001**
Şabac, Florin *see* **Mitrea, Marius**, **99k:30001**
(Stoilow, Simion) *see* **Jurchescu, Martin**, (**99h:00035**)
Yang, Le History and development of value distribution theory in China.

Items with secondary classifications in 30–03

(Abikoff, William) *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
Anderson, James Milne (*with* Drasin, David; Sons, Linda R.) Wolfgang Heinrich Johannes Fuchs (1915–1997). **99k:01042**
Bers, Lipman ★ Selected works of Lipman Bers. Part 1. **99g:01041a**
— ★ Selected works of Lipman Bers. Part 2. **99g:01041b**
(Cauchy, A. L.) *see* **Smithies, Frank**, **99b:01013**
Danilyuk, I. I. ★ Избранные труды. (Russian. Russian and Ukrainian summaries) [Selected works] **99f:01029**
Drasin, David *see* **Anderson, James Milne; et al.**, **99k:01042**
Flament, Dominique Quelques étapes de la constitution du nombre complexe. [Some steps in the development of complex numbers] **99b:01003**
(Fuchs, Wolfgang Heinrich Johannes) *see* **Anderson, James Milne; et al.**, **99k:01042**
(Gardiner, Frederick P.) *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
Jakóbczak, Piotr Hilbert's Twenty-Second Problem. (Polish. English summary) **99m:01025**
(Keen, Linda) *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
(Kra, Irwin) *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
Lubet, Jean-Pierre De Lambert à Cauchy: la résolution des équations littérales par le moyen des séries. (English and French summaries) [From Lambert to Cauchy: solving equations by means of series] **99m:01016**
(Maskit, Bernard) *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
(McMullen, Curtis T.) *see* **Smale, Stephen**
Neuenschwander, E. Documenting Riemann's impact on the theory of complex functions.
Porter, R. Michael Weierstrass's contributions to complex variables. (Spanish) **99m:01022**
Remmert, Reinhold From Riemann surfaces to complex spaces. (English and French summaries) **99j:01013**
(Riemann, Georg Friedrich Bernhard) *see* **Neuenschwander, E.**
Smale, Stephen The work of [Fields medalist] Curtis T. McMullen.
Smithies, Frank ★ Cauchy and the creation of complex function theory. (English summary) **99b:01013**
Sons, Linda R. *see* **Anderson, James Milne; et al.**, **99k:01042**

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Danilyuk, Ivan Il'ich *see* **Danilyuk, I. I.**, **99f:01029**
McMullen, Curtis T. *see* **Smale, Stephen**
Biography:
Bers, Lipman *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
McMullen, Curtis T. *see* **Smale, Stephen**
Collected Works:
Bers, Lipman *see* **Bers, Lipman**, **99g:01041a** *and* **99g:01041b**
Danilyuk, Ivan Il'ich *see* **Danilyuk, I. I.**, **99f:01029**

30–06 Proceedings, conferences, collections, etc.

(Beardon, Alan F.) *see* **Workshop: Value Distribution Theory and its Applications**, **99a:30002**
(Yang, Chung-Chun) *see* **Workshop: Value Distribution Theory and its Applications**, **99a:30002**

Items listed otherwise than by author

Analysis of discrete groups ★ Analysis of discrete groups. II. **99e:30001**
Hong Kong ★ International Workshop on Value Distribution Theory and its Applications. **99a:30002**
Symposium:
Analysis of Discrete Groups ★ Analysis of discrete groups. II. **99e:30001**
Workshop:
Value Distribution Theory and its Applications ★ International Workshop on Value Distribution Theory and its Applications. **99a:30002**

Items with secondary classifications in 30–06

(Axler, Sheldon) *see* **Holomorphic spaces**, **99a:00028**
(Dietrich, Volker) *see* **Clifford algebras and their application in mathematical physics**, **99a:00022**
(Dimovski, I. H.) *see* **Transform methods & special functions**, **99i:00031**
(Florian, Helmut) *see* **Generalized analytic functions**, **99d:00020**
(Gilbert, Robert Pertsch) *see* **Generalized analytic functions**, **99d:00020**
(Govil, Narendra K.) *see* **Approximation theory**, **99a:00051**
(Habetha, Klaus) *see* **Clifford algebras and their application in mathematical physics**, **99a:00022**
(Hackl, Klaus) *see* **Generalized analytic functions**, **99d:00020**
(Jank, Gerhard) *see* **Clifford algebras and their application in mathematical physics**, **99a:00022**
(Jones, William B.) *see* **Orthogonal functions, moment theory, and continued fractions**, **99f:00020**
(Kiryakova, Virginia S.) *see* **Transform methods & special functions**, **99i:00031**
(Kojima, Sadayoshi) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Lavrent'ev, Mikhail Mikhailovich) *see* **Algebra and mathematical analysis**, **99m:00019**
(Matsumoto, Yukio) *see* **Topology and Teichmüller spaces**, **99g:00051**
(McCarthy, John E.) *see* **Holomorphic spaces**, **99a:00028**
(Mohapatra, Ram Narayan) *see* **Approximation theory**, **99a:00051**
(Nashed, M. Zuhair) *see* **Approximation theory**, **99a:00051**
(Obreschkoff, Nikola) *see* **Transform methods & special functions**, **99i:00031**
(Rusev, Petŭr K.) *see* **Transform methods & special functions**, **99i:00031**
(Saito, Kyoji) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Sarason, Donald) *see* **Holomorphic spaces**, **99a:00028**
(Schnitzer, Franz Josef) *see* **Generalized analytic functions**, **99d:00020**
(Seppälä, Mika) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Sharma, Ambikeshwar) *see* **Approximation theory**, **99a:00051**
(Sri Ranga, Alagacone) *see* **Orthogonal functions, moment theory, and continued fractions**, **99f:00020**
(Szabados, J.) *see* **Approximation theory**, **99a:00051**
(Tutschke, Wolfgang) *see* **Generalized analytic functions**, **99d:00020**
(Varma, Arun Kumar) *see* **Approximation theory**, **99a:00051**
(Vragov, V. N.) *see* **Algebra and mathematical analysis**, **99m:00019**

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Algebra and mathematical analysis ★ Алгебра и математический анализ. (Russian) [Algebra and mathematical analysis] **99m:00019**
Anniversary:
Birth of Obreschkoff, Nikola ★ Transform methods & special functions, Varna '96. **99i:00031**
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Berkeley, CA ★ Holomorphic spaces. **99a:00028**
Campinas ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
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Clifford Algebras and their Application in Mathematical Physics ★ Clifford algebras and their application in mathematical physics. **99a:00022**
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Orthogonal Functions, Moment Theory, and Continued Fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
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Gilbert, Robert Pertsch ★ Generalized analytic functions. **99d:00020**
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Graz ★ Generalized analytic functions. **99d:00020**
Holomorphic spaces ★ Holomorphic spaces. **99a:00028**
Katinkulta ★ Topology and Teichmüller spaces. **99g:00051**
Memorial Volume:
Varma, Arun Kumar ★ Approximation theory. **99a:00051**
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Problems on complex dynamical systems ★ Fukuso rikigakkei no shomondai. [Problems on complex dynamical systems] **99h:58002**
Symposium:
Problems on Complex Dynamical Systems ★ Fukuso rikigakkei no shomondai. [Problems on complex dynamical systems] **99h:58002**
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Workshop:
Transform Methods & Special Functions ★ Transform methods & special functions, Varna '96. **99i:00031**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Brodovich, M. T. On a criterion for the holomorphy of an arbitrary mapping of a plane domain into a plane. (Russian. Russian summary) **99c:30001**
Marinescu, Constantin Some remarks on analytical functions. **99k:30002**
Mel'nichenko, I. P. (*with* Plaksa, S. A.) Potential fields with axial symmetry and algebras of monogenic functions of a vector argument. III. (Russian. English and Ukrainian summaries) **99e:30002**
Plaksa, S. A. *see* **Mel'nichenko, I. P., 99e:30002**
Telyakovskiĭ, D. S. On the weakening of the asymptotic monogeneity condition. (Russian. Russian summary) **99d:30001**
Volchkov, V. V. On an extremal problem associated with a theorem of Morera. (Russian. Russian summary) **99f:30001**

30A10 Inequalities in the complex domain

Aziz, Abdul[1] (*with* Rather, Nisar Ahmed) A refinement of a theorem of Paul Turán concerning polynomials. (English summary) **99b:30001**
— (*with* Zargar, B. A.) Inequalities for a polynomial and its derivative. (English summary) **99h:30001**
Govil, Narendra K. An L^p inequality for self-inversive polynomials. (English summary) **99b:30002**
— (*with* Mohapatra, Ram Narayan) Inequalities for maximum modulus of rational functions with prescribed poles. (English summary) **99f:30002**
Mohapatra, Ram Narayan *see* **Govil, Narendra K., 99f:30002**
Radenović, Stojan A note on Jensen's functional. (English summary) **99i:30002**
Rather, Nisar Ahmed *see* **Aziz, Abdul**[1], **99b:30001**
Zargar, B. A. *see* **Aziz, Abdul**[1], **99h:30001**

Items with secondary classifications in 30A10

Abul-Ez, M. A. (*with* Kakol, J.) Mode of increase of power similar sets of polynomials. (English and Arabic summaries) **99d:30003**
Andrievskii, Vladimir V. (*with* Ruscheweyh, Stephan) Complex polynomials and maximal ranges: background and applications. (English summary) **99i:30007**
Arestov, Vitalii V. Exact classical polynomial inequalities in H_p for $0 \le p \le \infty$. (English summary) **99g:26034**
Bhat, Aijaz Ahmad *see* **Dewan, K. K., 99m:30007**
Dewan, K. K. (*with* Bhat, Aijaz Ahmad) On the maximum modulus of polynomials not vanishing inside the unit circle. (English summary) **99m:30007**
Hall, R. R. The Gaussian curvature of minimal surfaces and Heinz' constant. **99j:53009**
Jain, Vinay Kumar Certain interesting implications of T. J. Rivlin's result on maximum modulus of a polynomial. (English summary) **99k:30006**
— Inequalities for polynomials with a prescribed zero. (English summary) **99d:30004**
Kakol, J. *see* **Abul-Ez, M. A., 99d:30003**
Pekarskiĭ, A. A. Inequalities for the derivatives of rational functions in Lorentz spaces. (Russian. English and Russian summaries) **99f:46040**
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Tamrazov, Promarz Eremenko's extremal problem on harmonic functions. (English summary) **99e:31003**
Yamada, Akira Positive differentials, theta functions and Hardy H^2 kernels. (English summary) **99h:30009**

30A99 None of the above, but in this section

Gaier, Dieter Calculus on arcs in the complex plane. (English summary) **99m:30002**
Hamdan, May Positive cases to the branch point problem. (English summary) **99c:30002**
Qiu, Jiqing *see* **Wu, Cong Xin**
Wu, Cong Xin (*with* Qiu, Jiqing) Some remarks for fuzzy complex analysis. (English summary)
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Items with secondary classifications in 30A99

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McIntosh, Alan G. R. *see* **Franks, Edwin, 99j:47017**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Kolyada, V. I. (*with* Leindler, László) BMO- and L_p-conditions for power series and Dirichlet series with positive coefficients. (English and Russian summaries) **99g:30001**
Leindler, László *see* **Kolyada, V. I., 99g:30001**
Li, Yun Xia Intermediate value formulas and asymptotic properties of "intermediate points" for complex functions. (Chinese. English and Chinese summaries) **99g:30002**
Melas, A. (*with* Nestoridis, V.; Papadoperakis, I.) Growth of coefficients of universal Taylor series and comparison of two classes of functions. **99i:30003**
Nestoridis, V. *see* **Melas, A.; et al., 99i:30003**
Papadoperakis, I. *see* **Melas, A.; et al., 99i:30003**
Sinnadurai, J. St. C. L. On a trigonometric series criterion for deterministic sequences. (English summary) **99m:30003**
Somasundaram, D. Some theorems of Ramanujan in analysis. (English summary) **99k:30003**

Items with secondary classifications in 30B10

Arakelyan, N. U. (*with* Yavryan, A. V.) Vector-valued analogues of Fabry's ratio theorem. (Russian) **99f:30003**
— Effective analytic continuation of power series with vector-valued coefficients. (Russian. Russian summary) **99h:30002**
Arutyunyan, G. V. (*with* Martirosyan, V. A.) On a uniformly tangent approximation by lacunary power series on Carleman sets. II. (Russian. Russian summary) **99f:30058**
Beaucoup, Franck (*with* Borwein, Peter B.; Boyd, David W.; Pinner, Christopher G.) Multiple roots of $[-1, 1]$ power series. (English summary) **99c:30005**
Borwein, Peter B. *see* **Beaucoup, Franck; et al., 99c:30005**
Boyd, David W. *see* **Beaucoup, Franck; et al., 99c:30005**
Cater, F. S. On monotonic and analytic functions in C^∞. (English summary) **99d:26015**
Cochran, Lyle (*with* Cooper, S. Clement) Symmetric orthogonal Laurent polynomials. **99m:33013**
Cooper, S. Clement *see* **Cochran, Lyle, 99m:33013**
Gabrielyan, È. V. (*with* Martirosyan, V. A.) On the uniqueness of entire functions that have lacunary power series and are bounded in a Jordan angle. (Russian. Russian summary) **99k:30045**
Gao, Zong Sheng (*with* Sun, Dao Chun) Regular growth of Taylor series. (Chinese. English and Chinese summaries) **99c:30054**
Jovanović, Ivan (*with* Rakočević, Vladimir) Multipliers of mixed-norm sequence spaces and measures of noncompactness. II. (English summary) **99c:47085**
Kahane, Jean-Pierre A few generic properties of Fourier and Taylor series. (English summary) **99m:42007**
Luh, Wolfgang (*with* Martirosyan, V. A.; Müller, Jürgen[3]) T-universal functions with lacunary power series. (English summary) **99f:30055**
Martirosyan, V. A. On a uniformly tangent approximation by lacunary power series on Carleman sets. (Russian. Russian summary) **99f:30057**
— *see also* **Luh, Wolfgang; et al., 99f:30055**; **Arutyunyan, G. V., 99f:30058** *and* **Gabrielyan, È. V., 99k:30045**
Móricz, Ferenc Exact estimates for integrals involving Dirichlet series with nonnegative coefficients. (English summary) **99j:30003**
Müller, Jürgen[3] *see* **Luh, Wolfgang; et al., 99f:30055**
Ostrovskiĭ, I. V. (*with* Zheltukhina, N. A.) On power series having sections with multiply positive coefficients and a theorem of Pólya. **99k:30047**
Pinner, Christopher G. *see* **Beaucoup, Franck; et al., 99c:30005**
Rakočević, Vladimir *see* **Jovanović, Ivan, 99c:47085**
Sun, Dao Chun *see* **Gao, Zong Sheng, 99c:30054**
Tan, Hai Ou On subspaces of Bloch space and series with Hadamard gaps. (English and Chinese summaries) **99k:30062**
Yavryan, A. V. *see* **Arakelyan, N. U., 99f:30003**
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30B30 Boundary behavior of power series, over-convergence

Arakelyan, N. U. (*with* Yavryan, A. V.) Vector-valued analogues of Fabry's ratio theorem. (Russian) **99f:30003**
Jakimovski, Amnon (*with* Stadtmüller, Karin) On matrix transforms of power series with Ostrowski gaps. (English summary) **99f:30004**
Mu, Le Hua On properly divergent series. (English and Chinese summaries) **99i:30004**
Stadtmüller, Karin *see* **Jakimovski, Amnon, 99f:30004**
Yavryan, A. V. *see* **Arakelyan, N. U., 99f:30003**

Items with secondary classifications in 30B30

Twomey, J. B. Radial variation of functions in Dirichlet-type spaces. **99d:30033**
Zhang, Wen-Bin[1] The prime element theorem in additive arithmetic semigroups. II. **99j:11115**

30B40 Analytic continuation

Arakelyan, N. U. Effective analytic continuation of power series with vector-valued coefficients. (Russian. Russian summary) **99h:30002**
Gustafsson, Björn (*with* Putinar, Mihai) An exponential transform and regularity of free boundaries in two dimensions. (English summary) **99k:30004**
Hasson, Maurice (*with* Walsh, Bertram) Singular points of analytic functions expanded in series of Faber polynomials. (English summary) **99k:30005**
Putinar, Mihai *see* **Gustafsson, Björn, 99k:30004**
Sheremeta, Myroslav M. On analytic continuation of power series with the condition on their Gelfond-Leontev derivatives. **99c:30003**
— On analytic continuation of functions with the condition on their Gelfond-Leont'ev derivatives. (English and Polish summaries) **99f:30005**
Walsh, Bertram *see* **Hasson, Maurice, 99k:30005**
Yavryan, A. V. On the rate of summation of power series outside the convergence circle. (Russian) **99j:30002**

Items with secondary classifications in 30B40

Cheng, Jin[2] *see* **Xu, Ding Hua; et al., 99j:35027**
Dubinskiĭ, Yu. A. On the best extension of a periodic function and on the corresponding boundary value problem. (Russian. Russian summary) **99m:42012**
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Li, Ming Zhong *see* **Xu, Ding Hua; et al., 99j:35027**
Pokrovskiĭ, A. V. Analytic continuation and superconvergence of series of homogeneous polynomials. (Russian. Russian summary) **99f:30044**
Prokhorovich, T. N. *see* **Vasilevich, N. D., 99a:34013**

(Qian, Tao) *see* **Khavinson, Dmitry, 99c:42021**
Reich, Edgar Extremal extensions from the circle to the disk. **99c:30041**
Vasilevich, N. D. (*with* Prokhorovich, T. N.) A second-order system of Fuchs type. (Russian. Russian summary) **99a:34013**
Xu, Ding Hua (*with* Cheng, Jin[2]; Li, Ming Zhong) On the stability estimation of analytic continuation for potential field. (Chinese. English and Chinese summaries) **99j:35027**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Berland, Marcel On the convergence and singularities of analytic functions defined by E-Dirichletian elements. (English and French summaries) **99d:30002**
Bhattacharya, D. K. (*with* Manna, S.) Solution of operator equation and the space of entire Dirichlet series. (English summary) **99a:30003**
Bodnar, R. D. *see* **Sheremeta, Myroslav M., 99h:30003**
Ding, Xiao Qing[1] The singular points and Picard points of random Dirichlet series. (English and Chinese summaries) **99m:30004**
Fedynyak, S. I. *see* **Sheremeta, Myroslav M., 99g:30004**
Gaĭsin, A. M. An estimate for Dirichlet series with real coefficients on a ray. (Russian. Russian summary) **99f:30006**
— An asymptotic estimate for the sum of a Dirichlet series on curves. (Russian. Russian summary) **99g:30003**
Lutsishin, M. R. (*with* Skaskīv, O. B.) Asymptotic properties of a multiple Dirichlet series. (Ukrainian. English and Russian summaries)
Lyubarskii, Yurii I. (*with* Seip, Kristian) Sampling and interpolating sequences for multiband-limited functions and exponential bases on disconnected sets. (English summary) **99f:30007**
Manna, S. *see* **Bhattacharya, D. K., 99a:30003**
Móricz, Ferenc Exact estimates for integrals involving Dirichlet series with nonnegative coefficients. (English summary) **99j:30003**
Pritula, Ya. Ya. *see* **Sheremeta, Myroslav M., 99h:30004a** *and* **99h:30004b**
Seip, Kristian *see* **Lyubarskii, Yurii I., 99f:30007**
Sheremeta, Myroslav M. On a relationship between the maximum modulus and the maximum term of an entire Dirichlet series. (Ukrainian. English and Russian summaries)
— (*with* Pritula, Ya. Ya.) Maximum modulus and maximal term of a class of Dirichlet series. (Russian) **99h:30004a**
— (*with* Pritula, Ya. Ya.) Errata: "Maximum modulus and maximal term of a class of Dirichlet series". (Russian) **99h:30004b**
— On the maximum term of the derivative of the Dirichlet series. (Russian) **99i:30005**
— (*with* Bodnar, R. D.) On the rate of convergence of the partial sums of Dirichlet series and rational approximation of analytic functions. (English summary) **99h:30003**
— On sequences of maximal terms and central exponents of derivatives of Dirichlet series. (Russian. Russian summary) **99f:30008**
— (*with* Fedynyak, S. I.) On the derivative of the Dirichlet series. (Russian. Russian summary) **99g:30004**
Skaskīv, O. B. Some open problems in Dirichlet series.
— *see also* **Lutsishin, M. R.**
Timofeev, A. Yu. On the theory of series of exponentials. (English summary) (*see* **99d:00020**)
Yu, Jiarong A theorem of Picard type for Dirichlet series. (English summary) **99h:30005**

Items with secondary classifications in 30B50

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Boas, Harold P. The football player and the infinite series. **99a:11101**
(Bohr, Harald) *see* **Boas, Harold P., 99a:11101**
Kolyada, V. I. (*with* Leindler, László) BMO- and L_p-conditions for power series and Dirichlet series with positive coefficients. (English and Russian summaries) **99g:30001**
Kumar, Arvind (*with* Srivastava, G. S.) Spaces of functions analytic in a half plane. (English summary) **99d:46036**
Leindler, László *see* **Kolyada, V. I., 99g:30001**
Okada, Tatsuya (*with* Sekiguchi, Takeshi; Shiota, Yasunobu) Multifractal spectrum of multinomial measures. **99c:28027**
Sekiguchi, Takeshi *see* **Okada, Tatsuya; et al., 99c:28027**
Shiota, Yasunobu *see* **Okada, Tatsuya; et al., 99c:28027**
Srivastava, G. S. *see* **Kumar, Arvind, 99d:46036**
Weil, André Séries de Dirichlet et fonctions automorphes. [Dirichlet series and automorphic functions] (*see* **99f:00042**)

30B60 Completeness problems, closure of a system of functions

Fujii, Nobuhiko (*with* Nakamura, Akihiro[1]; Redheffer, Raymond M.) On the excess of sets of complex exponentials. **99i:30006**
Nakamura, Akihiro[1] *see* **Fujii, Nobuhiko; et al., 99i:30006**
Redheffer, Raymond M. *see* **Fujii, Nobuhiko; et al., 99i:30006**
Wallisser, Rolf Complete systems of holomorphic functions. (English summary) **99m:30005**

Items with secondary classifications in 30B60

Luh, Wolfgang (*with* Martirosyan, V. A.; Müller, Jürgen[3]) T-universal functions with lacunary power series. (English summary) **99f:30055**
Martirosyan, V. A. *see* **Luh, Wolfgang; et al., 99f:30055**
Montes-Rodríguez, Alfonso A Birkhoff theorem for Riemann surfaces. (English summary) **99h:30047**
Müller, Jürgen[3] *see* **Luh, Wolfgang; et al., 99f:30055**
Rusev, Pet$'$r K. Complete systems of Gauss hypergeometric functions in spaces of holomorphic functions. (English summary) **99h:33008**

30B70 Continued fractions [see also 11A55, 40A15]

Antonova, T. M. On the convergence and approximation error of branched continued fractions with complex components. (Ukrainian. English summary)
Barrios, Dolores (*with* López Lagomasino, G.; Martínez-Finkelshtein, Andrei; Torrano Giménez, E.) On the domain of convergence and poles of complex J-fractions. (English summary) **99b:30003**
Bracciali, C. F. (*with* McCabe, J. H.) Computing the coefficients of some continued fractions. **99a:30004**
Cuyt, Annie Floating-point versus symbolic computations in the qd-algorithm. (English summary) **99f:30009**
Jones, William B. (*with* Van Assche, Walter) Asymptotic behavior of the continued fraction coefficients of a class of Stieltjes transforms including the Binet function. **99m:30006**
López Lagomasino, G. *see* **Barrios, Dolores; et al., 99b:30003**
Martínez-Finkelshtein, Andrei *see* **Barrios, Dolores; et al., 99b:30003**
McCabe, J. H. *see* **Bracciali, C. F., 99a:30004**
Torrano Giménez, E. *see* **Barrios, Dolores; et al., 99b:30003**
Van Assche, Walter *see* **Jones, William B., 99m:30006**

Items with secondary classifications in 30B70

Dumont, Dominique (*with* Zeng, Jiang) Polynômes d'Euler et fractions continues de Stieltjes-Rogers. (English summary) [Euler polynomials and Stieltjes-Rogers continued fractions] **99i:05008**
Jones, William B. (*with* Shen, Guoxiang) Regular strong Hamburger moment problem. **99m:44011**
Kachmar, V. S. (*with* Rusyn, B. P.; Shmoĭlov, V. I.) Algorithms for computing the values of continued fractions. (Russian. Russian summary) **99m:65026**
Lenin, R. B. *see* **Parthasarathy, P. R.; et al., 99g:60156**
Lorentzen, Lisa Asymptotic behavior of solutions of three-term Poincaré difference equations. (English summary) **99b:39007**
— Continued compositions of self-mappings. (English summary) (*see* **99g:00046**)
Palmore, Julian Shadowing by computable orbits of continued fraction convergents for algebraic numbers. II. (English summary) **99d:58096**
— A relation between successive approximations and continued fractions for quadratic irrationals: rates of convergence. (English summary)
Parthasarathy, P. R. (*with* Lenin, R. B.; Schoutens, Wim; Van Assche, Walter) A birth and death process related to the Rogers–Ramanujan continued fraction. (English summary) **99g:60156**
Ribits'ka, O. M. On the positive J-fraction solutions of the linear functional equations. **99a:47019**
Rusyn, B. P. *see* **Kachmar, V. S.; et al., 99m:65026**
Schoutens, Wim *see* **Parthasarathy, P. R.; et al., 99g:60156**
Shen, Guoxiang *see* **Jones, William B., 99m:44011**
Shmoĭlov, V. I. *see* **Kachmar, V. S.; et al., 99m:65026**
Van Assche, Walter *see* **Parthasarathy, P. R.; et al., 99g:60156**
Zeng, Jiang *see* **Dumont, Dominique, 99i:05008**

30Cxx Geometric function theory

30C10 Polynomials

Abul-Ez, M. A. (*with* Kakol, J.) Mode of increase of power similar sets of polynomials. (English and Arabic summaries) **99d:30003**
Andrievskii, Vladimir V. (*with* Ruscheweyh, Stephan) Complex polynomials and maximal ranges: background and applications. (English summary) **99i:30007**
Aziz, Abdul[1] (*with* Shah, W. M.) An integral mean estimate for polynomials. (English summary) **99a:30005**
— (*with* Zargar, B. A.) On the critical points of a polynomial. (English summary) **99a:30006**
Bhat, Aijaz Ahmad *see* **Dewan, K. K., 99m:30007**
Borwein, Peter B. (*with* Erdélyi, Tamás) Littlewood-type problems on subarcs of the unit circle. (English summary) **99j:30004**
Dewan, K. K. (*with* Bhat, Aijaz Ahmad) On the maximum modulus of polynomials not vanishing inside the unit circle. (English summary) **99m:30007**
Erdélyi, Tamás *see* **Borwein, Peter B., 99j:30004**
Fujimura, Masayo *see* **Nishizawa, Kiyoko, 99m:30009**
Gluchoff, Alan (*with* Hartmann, Frederick) Univalent polynomials and non-negative trigonometric sums. **99i:30008**
Hartmann, Frederick *see* **Gluchoff, Alan, 99i:30008**
Jain, Vinay Kumar Certain interesting implications of T. J. Rivlin's result on maximum modulus of a polynomial. (English summary) **99k:30006**
— Inequalities for polynomials with a prescribed zero. (English summary) **99d:30004**
Kakol, J. *see* **Abul-Ez, M. A., 99d:30003**
Koosis, Paul A result on polynomials and its relation to another, concerning entire functions of exponential type. (English, Russian and Ukrainian summaries) **99d:30005**
Kroó, András (*with* Pritsker, I. E.) A sharp version of Mahler's inequality for products of polynomials. (English summary) **99m:30008**
Nishizawa, Kiyoko (*with* Fujimura, Masayo) Branch locus of polynomial maps. (English summary) **99m:30009**
Pritsker, I. E. *see* **Kroó, András, 99m:30008**
Rahman, Qazi I. Some results and problems about polynomials. (English summary) (*see* **99d:00019**)
Ruscheweyh, Stephan *see* **Andrievskii, Vladimir V., 99i:30007**
Schmieder, Gerald Der Satz von Rolle im Komplexen. (German summary) [The theorem of Rolle in the complex domain] **99i:30009**
Shah, W. M. *see* **Aziz, Abdul[1], 99a:30005**
Zargar, B. A. *see* **Aziz, Abdul[1], 99a:30006**

Items with secondary classifications in 30C10

Aziz, Abdul[1] (*with* Rather, Nisar Ahmed) A refinement of a theorem of Paul Turán concerning polynomials. (English summary) **99b:30001**
— (*with* Zargar, B. A.) Inequalities for a polynomial and its derivative. (English summary) **99h:30001**
Beauzamy, Bernard Stability of the solutions of differential equations. (English summary) **99j:35006**
(Bloom, Thomas) *see* **Saff, Edward B., 99h:31001**
Dimitrov, Dimitar K. Counterexamples to a problem of Pólya and to a problem of Karlin. (English summary) **99k:41008**
Dragnev, P. D. *see* **Kuijlaars, A. B. J., 99f:31003**
Dryanov, Dimiter P. (*with* Rahman, Qazi I.) Nikol′skiĭ-type inequalities for polynomials with restricted zeros. (English summary) **99g:41011**
Dubejko, Tomasz Infinite branched circle packings and discrete complex polynomials. **99h:05025**
Gardner, Robert Bentley (*with* Weems, Amy) A Bernstein type L^p inequality for a certain class of polynomials. (English summary) **99g:41012**
Govil, Narendra K. An L^p inequality for self-inversive polynomials. (English summary) **99b:30002**
— (*with* Mohapatra, Ram Narayan) Inequalities for maximum modulus of rational functions with prescribed poles. (English summary) **99f:30002**
— (*with* Mohapatra, Ram Narayan) Bernstein type inequalities for rational functions with prescribed poles. (English summary) **99c:41028**
Graczyk, Jacek (*with* Świątek, Grzegorz) Generic hyperbolicity in the logistic family. **99b:58079**
Kuijlaars, A. B. J. (*with* Dragnev, P. D.) Equilibrium problems associated with fast decreasing polynomials. (English summary) **99f:31003**
Lubinsky, D. S. Small values of polynomials and potentials with L_p normalization. (English summary) **99c:31005**
Marjanović, Z. M. *see* **Milovanović, Gradimir V.; et al., 99d:33012**
(McMullen, Curtis T.) *see* **Smale, Stephen, 99k:58001**
Milovanović, Gradimir V. (*with* Rajković, P. M.; Marjanović, Z. M.) A class of orthogonal polynomials on the radial rays in the complex plane. II. (English summary) **99d:33012**
— A class of orthogonal polynomials on the radial rays in the complex plane. (English summary) **99d:33011**
Mohapatra, Ram Narayan *see* **Govil, Narendra K., 99c:41028** *and* **99f:30002**
Rahman, Qazi I. *see* **Dryanov, Dimiter P., 99g:41011**
Rajković, P. M. *see* **Milovanović, Gradimir V.; et al., 99d:33012**
Rather, Nisar Ahmed *see* **Aziz, Abdul[1], 99b:30001**
Saff, Edward B. (*with* Totik, Vilmos) ★ Logarithmic potentials with external fields. **99h:31001**
Smale, Stephen The work of Curtis T. McMullen. **99k:58001**
Świątek, Grzegorz *see* **Graczyk, Jacek, 99b:58079**
Totik, Vilmos *see* **Saff, Edward B., 99h:31001**
Weems, Amy *see* **Gardner, Robert Bentley, 99g:41012**
Yu, Xiu Yuan A theorem on the transcendency of a function. (English summary) **99e:30027**
Zargar, B. A. *see* **Aziz, Abdul[1], 99b:30001**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Andrievskii, Vladimir V. (*with* Blatt, H.-P.) On the distribution of zeros of polynomials on an analytic curve. (English summary) **99d:30006**
Bajunaid, I. (*with* Jamjoom, F. B. H.; Zaheer, N.) On a theorem of Marden with applications. (English summary) **99c:30004**
Beaucoup, Franck (*with* Borwein, Peter B.; Boyd, David W.; Pinner, Christopher G.) Multiple roots of $[-1, 1]$ power series. (English summary) **99c:30005**
Blatt, H.-P. *see* **Andrievskii, Vladimir V., 99d:30006**
Borcea, Julius Two approaches to Sendov's conjecture. (English summary) **99d:30007**
Borwein, Peter B. *see* **Beaucoup, Franck; et al., 99c:30005**
Boyd, David W. *see* **Beaucoup, Franck; et al., 99c:30005**
Chademan, Arsalan Bounded algebraic critical values. (English summary) **99c:30006**
Dégot, Jérôme (*with* Jenvrin, Odile) Bombieri's norm versus Mahler's measure. **99m:30010**
Dimova, E. A. On the distribution of the zeros of some composed polynomials. (English summary) **99d:30008**
Dubickas, Artūras On the distribution of roots of polynomials in sectors. I. (English and Lithuanian summaries) **99j:30005**
— On the distribution of roots of polynomials in sectors. II. (English and Lithuanian summaries) **99j:30006**
Gilewicz, Jacek (*with* Leopold, Elie) Location of the zeros of polynomials satisfying three-term recurrence relations with complex coefficients. (English summary) **99c:30007**
Hinkkanen, Aimo Schur products of certain polynomials. (English summary) **99b:30004**
Jamjoom, F. B. H. *see* **Bajunaid, I.; et al., 99c:30004**
Jenvrin, Odile *see* **Dégot, Jérôme, 99m:30010**
Khadzhiĭski, Vanya Kh. Distributions of zeros of a sequence of best rational approximants. **99g:30005**
Lang, Wolfdieter On sums of powers of zeros of polynomials. (English summary) **99f:30010**
Leopold, Elie *see* **Gilewicz, Jacek, 99c:30007**
McCoy, T. L. A principle of O. Szász and the Sendov-Ilyeff problem for polynomials near $z^n - 1$. (English summary) **99b:30005**
Merzlyakov, S. G. A generalization of Laguerre theorems on zeros of entire functions. (Russian. Russian summary) **99g:30006**
Mkrtchyan, M. A. On the number of distinct zeros of a polynomial. (Russian)
Norfolk, Timothy S. On the zeros of the partial sums to ${}_1F_1(1; b; z)$. (English summary) **99e:30003**
Ocken, Stanley Convergence criteria for attracting cycles of Newton's method. (English summary) **99f:30011**
Oturanç, Galip *see* **Taşçı, Dursun**
Papamichael, N. (*with* Pritsker, I. E.; Saff, Edward B.) Asymptotic zero distribution of Laurent-type rational functions. (English summary) **99a:30007**
Pawlowski, Piotr On the zeros of a polynomial and its derivatives. (English summary) **99a:30008**
— The location of the zeros of the higher order derivatives of a polynomial. (English summary) **99h:30006**
Pinner, Christopher G. *see* **Beaucoup, Franck; et al., 99c:30005**
Prasanna Kumar, N. (*with* Shenoy, B. Gokuldas) On the zeros of polynomials. (English summary)
— *see also* **Shenoy, B. Gokuldas**
Pritsker, I. E. *see* **Papamichael, N.; et al., 99a:30007**
Ren, Hongshan The accurate distribution of all roots of the equation $\lambda + a + be^{-\lambda} = 0$. (English and Chinese summaries) **99a:30009**
Saff, Edward B. *see* **Papamichael, N.; et al., 99a:30007**
Schmeisser, Gerhard Inequalities for the zeros of an orthogonal expansion of a polynomial. (English summary) **99f:30012**
Shenoy, B. Gokuldas (*with* Prasanna Kumar, N.) On the zeros of complex polynomials. (English summary)
— *see also* **Prasanna Kumar, N.**
Taşçı, Dursun (*with* Oturanç, Galip) The lower bounds for the zeros of a polynomial with real or complex coefficients. (English and Turkish summaries)
Todorov, Pavel G. Counterexamples to a lemma of M. Kostova for multiplier sequences for algebraic polynomials.
— A natural verification of the Sendov conjecture for the canonical cubic equation and other results for the location of its roots. (English summary) **99i:30010**
Zaheer, N. *see* **Bajunaid, I.; et al., 99c:30004**
Zakeri, Saeed On critical points of proper holomorphic maps on the unit disk. (English summary) **99d:30009**

Items with secondary classifications in 30C15

Agathoklis, Panajotis *see* **Marquez, Horacio J., 99h:93039**
Barnard, Roger W. (*with* Cima, Joseph; Pearce, Kent) Cesàro sum approximation of outer functions. (English summary) **99m:30018**
Barone, Piero *see* **March, Riccardo, 99h:44009**
Beaucoup, Franck Maximal points of stable and related polynomials. (English summary) **99b:41003**
Ben-Israel, Adi *see* **Yau, Lily, 99i:65056**
Blatt, H.-P. (*with* Mhaskar, H. N.) Some discrepancy theorems in the theory of weighted polynomial approximation. (English summary) **99e:41003**
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Asymptotics of extreme zeros of the Meixner-Pollaczek polynomials. (English summary) **99c:33014**
Cima, Joseph *see* **Barnard, Roger W.; et al., 99m:30018**
Daboul, Jamil (*with* Rathie, P. N.) Generalized parity and r-polynomials. (English summary) **99b:33014**
Dimitrov, Dimitar K. Counterexamples to a problem of Pólya and to a problem of Karlin. (English summary) **99k:41008**
Driver, Kathy A. (*with* Temme, Nico M.) Asymptotics and zero distribution of Padé polynomials associated with the exponential function. (English summary) **99b:41008**
Dubuc, Serge (*with* Zaoui, M.) Sur la quasi-convexité des arcs trinomiaux. (English summary) [The quasiconvexity of trinomial arcs] **99e:26011**
Gregor, Jiří (*with* Tišer, Jaroslav) On Hadamard powers of polynomials. (English summary) **99k:26016**
Haruta, Mako E. Newton's method on the complex exponential function. (English summary) **99i:30041**
Herceg, Djordje *see* **Petković, Miodrag S.; et al., 99e:65088**
Hirschhorn, Michael D. The fundamental theorem of algebra.
Ilić, Snežana M. *see* **Tričković, Slobodan B., 99b:65067**
Ismail, Mourad E. H. *see* **Chen, Yang[1], 99c:33014**
Leopold, Elie Location of the zeros of orthogonal polynomials with an automatic procedure. I. (English summary) **99h:65104**
Li, Yun Xia Intermediate value formulas and asymptotic properties of "intermediate points" for complex functions. (Chinese. English and Chinese summaries) **99g:30002**
Mahrt, L. F. (*with* Szidarovszky, Ferenc) A factored form of complex analytic functions and its application to finding partial fraction decompositions. (English summary) **99e:26014**
March, Riccardo (*with* Barone, Piero) Application of the Padé method to solving the noisy trigonometric moment problem: some initial results. (English summary) **99h:44009**
Marjanović, Z. M. *see* **Milovanović, Gradimir V.; et al., 99d:33012**
Marquez, Horacio J. (*with* Agathoklis, Panajotis) On the existence of robust strictly positive real rational functions. (English summary) **99h:93039**
Mhaskar, H. N. *see* **Blatt, H.-P., 99e:41003**
Miller, Michael J. Some maximal polynomials must be nonreal. **99h:41010**
Milovanović, Gradimir V. (*with* Rajković, P. M.; Marjanović, Z. M.) A class of orthogonal polynomials on the radial rays in the complex plane. II. (English summary) **99d:33012**
— A class of orthogonal polynomials on the radial rays in the complex plane. (English summary) **99d:33011**
Mossinghoff, Michael J. (*with* Pinner, Christopher G.; Vaaler, Jeffrey D.) Perturbing polynomials with all their roots on the unit circle. (English summary) **99b:26024**
Ortega-Cerdà, Joaquim Zero sets of holomorphic functions in the bidisk. (English summary) **99g:32007**
Palmore, Julian Halley's method and Schwarzian derivatives. (English summary) **99a:65068**
Pearce, Kent *see* **Barnard, Roger W.; et al., 99m:30018**
Petković, Miodrag S. (*with* Tričković, Slobodan B.; Herceg, Djordje) On Euler-like methods for the simultaneous approximation of polynomial zeros. (English summary)

99e:65088
Pinner, Christopher G. *see* **Mossinghoff, Michael J.; et al., 99b:26024**
Rajković, P. M. *see* **Milovanović, Gradimir V.; et al., 99d:33012**
Rathie, P. N. *see* **Daboul, Jamil, 99b:33014**
Ryabinin, A. A. On the zeros of the Fourier transforms on Cantor-Lebesgue measures. (Russian summary) **99f:42015**
Schmeisser, Gerhard Orthogonal expansion and variations of sign of continuous functions. (English summary) **99f:26019**
Schmieder, Gerald Der Satz von Rolle im Komplexen. (German summary) [The theorem of Rolle in the complex domain] **99i:30009**
Szidarovszky, Ferenc *see* **Mahrt, L. F., 99e:26014**
Temme, Nico M. *see* **Driver, Kathy A., 99b:41008**
Tišer, Jaroslav *see* **Gregor, Jiří, 99k:26016**
Tričković, Slobodan B. (*with* Ilić, Snežana M.) A family of simultaneous methods for finding zeros of analytic functions. (English summary) **99b:65067**
— *see also* **Petković, Miodrag S.; et al., 99e:65088**
Vaaler, Jeffrey D. *see* **Mossinghoff, Michael J.; et al., 99b:26024**
Yau, Lily (*with* Ben-Israel, Adi) The Newton and Halley methods for complex roots. **99i:65056**
Zaoui, M. *see* **Dubuc, Serge, 99e:26011**

30C20 Conformal mappings of special domains

He, Zheng-Xu (*with* Schramm, Oded) On the distortion of relative circle domain isomorphisms. (English summary) **99k:30007**
Kassandrov, Vladimir V. Conformal mappings, hyperanalyticity and field dynamics. (English summary) **99b:30006**
Kesarev, A. V. Characterization of conformal mappings of the upper half-plane on a domain of "comb" type. (Russian. English, Russian and Ukrainian summaries) **99e:30004**
Khuskivadze, G. A. (*with* Paatashvili, V. A.) On the conformal mapping of a circle onto a domain with an arbitrary piecewise smooth boundary. (English and Georgian summaries) **99m:30011**
Maitani, Fumio Conformal welding of annuli. **99i:30011**
Masumoto, Makoto Conformal and holomorphic mappings of a once-holed torus. (Japanese) (*see* **99e:30001**)
Mityushev, Vladimir Conformal mapping of the domain bounded by a circular polygon with zero angles onto the unit disc. (English summary) **99d:30010**
Paatashvili, V. A. *see* **Khuskivadze, G. A., 99m:30011**
Schramm, Oded *see* **He, Zheng-Xu, 99k:30007**

Items with secondary classifications in 30C20

Bhattacharya, Tilak (*with* Weitsman, Allen) Estimates for Green's function in terms of asymmetry. (English summary) **99j:31002**
Bowers, Philip L. (*with* Stephenson, Kenneth) A "regular" pentagonal tiling of the plane. (English summary) **99d:52016**
Craster, R. V. (*with* Hoàng, Viêt Hà) Applications of Fuchsian differential equations to free boundary problems. (English summary) **99c:34005**
He, Zheng-Xu (*with* Schramm, Oded) The C^∞-convergence of hexagonal disk packings to the Riemann map. **99j:52021**
Hoàng, Viêt Hà *see* **Craster, R. V., 99c:34005**
Iooss, Gérard Sur une transformation conforme, utile dans le problème des ondes de gravité stationnaires. (English and French summaries) [On a conformal map that is useful in the problem of standing gravity waves] **99b:76010**
Khuskivadze, G. A. *see* **Paatashvili, V. A., 99f:30013**
Kolesnikov, S. V. Some remarks on descriptive-metric characteristics of singular sets of analytic functions. (Russian. Russian summary) **99i:31002**
Kriete, Hartje Herman's proof of the existence of critical points on the boundary of singular domains. **99i:30042**
Lanza de Cristoforis, Massimo A functional decomposition theorem for the conformal representation. **99d:47074**
Ma, Wan Cang (*with* Minda, David) Two-point distortion theorems for strongly close-to-convex functions. (English summary) **99b:30019**
McKean, H. P. A quick proof of Riemann's mapping theorem. **99i:30013**
Minda, David *see* **Ma, Wan Cang, 99b:30019**
Paatashvili, V. A. (*with* Khuskivadze, G. A.) On conformal mapping of simply connected domains with a piecewise smooth boundary. (English and Georgian summaries) **99f:30013**
Papamichael, N. (*with* Stylianopoulos, N. S.) The asymptotic behavior of conformal modules of quadrilaterals with applications to the estimation of resistance values. (English summary) **99i:41029**
Schramm, Oded *see* **He, Zheng-Xu, 99j:52021**
Stephenson, Kenneth *see* **Bowers, Philip L., 99d:52016**
Stylianopoulos, N. S. *see* **Papamichael, N., 99i:41029**
Szałowska, A. *see* **Włodarczyk, K., 99a:46085**
Volkov, E. A. On the approximate conformal mapping of a polygon onto a rectangle by the block method. (Russian) **99m:41051**
Volkov-Bogorodsky, D. B. ★ Об интегрировании уравнения класса Фукса с четырьмя особыми точками (в связи с задачей конформного отображения). (Russian. Russian summary) [Integration of an equation of the Fuchs class with four singular points (in connection with the conformal mapping problem)] **99a:34015**
Weitsman, Allen *see* **Bhattacharya, Tilak, 99j:31002**
Włodarczyk, K. (*with* Szałowska, A.) Distortion of biholomorphic maps on homogeneous domains in J^*-algebras. **99a:46085**

30C25 Covering theorems in conformal mapping theory

Brannan, David A. On univalence, multivalence and infinite-valence. (English summary) **99a:30010**
Gauthier, Paul M. Covering properties of holomorphic mappings. **99h:30007**
Stowe, Dennis Injectivity and the pre-Schwarzian derivative. **99h:30008**

Items with secondary classifications in 30C25

Gouma, Tomomi Ahlfors functions on non-planar Riemann surfaces whose double are hyperelliptic. **99f:30065**
Kuz'mina, G. V. Methods of the geometric theory of functions. II. (Russian. Russian summary) **99c:30047a**
— Erratum: "Methods of the geometric theory of functions. I, II" [Algebra i Analiz **9** (1997), no. 3, 41–103; MR 98h:30041; ibid. **9** (1997), no. 5, 1–50; MR 99c:30047a]. (Russian) **99c:30047b**

30C30 Numerical methods in conformal mapping theory [see also 65E05]

Aharonov, Dov The sharp constant in the ring lemma. (English summary) **99c:30008**
Amano, Kaname A charge simulation method for numerical conformal mapping onto circular and radial slit domains. (English summary) **99b:30007**
DeLillo, Thomas K. (*with* Pfaltzgraff, John A.) Numerical conformal mapping methods for simply and doubly connected regions. (English summary) **99g:30007**
Driscoll, Tobin A. *see* **Trefethen, Lloyd N., 99i:30012**
Inoue, Tetsuo Theoretical consideration of charge simulation method for numerical conformal mappings in a ring domain. (English summary) **99m:30012**
Kadi, Zafer (*with* Rockwood, Alyn) Conformal maps defined about polynomial curves. (English summary) **99b:30008**
Murid, A. H. M. (*with* Nashed, M. Zuhair; Razali, M. R. M.) Numerical conformal mapping for exterior regions via the Kerzman-Stein kernel. (English summary) **99k:30008**
Nashed, M. Zuhair *see* **Murid, A. H. M.; et al., 99k:30008**
Pfaltzgraff, John A. *see* **DeLillo, Thomas K., 99g:30007**
Razali, M. R. M. *see* **Murid, A. H. M.; et al., 99k:30008**
Rockwood, Alyn *see* **Kadi, Zafer, 99b:30008**
Trefethen, Lloyd N. (*with* Driscoll, Tobin A.) Schwarz-Christoffel mapping in the computer era. (English summary) **99i:30012**

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Kovalev, L. V. On the problem of extremal partitioning with free poles on the circle. (Russian. English summary) **99j:30028**
Mocanu, Petru T. (*with* Ruscheweyh, Stephan) On a majorization-subordination problem for univalent functions. (English summary) **99m:30023**
Pommerenke, Ch. (*with* Rohde, Steffen) The Gehring-Hayman inequality in conformal mapping. (English summary) **99c:30009**
Ponnusamy, S. (*with* Vuorinen, Matti K.) Univalence and convexity properties for confluent hypergeometric functions. (English summary) **99f:33004**

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30C62 Quasiconformal mappings in the plane

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Anderson, James Milne (*with* Cantón, Alicia; Fernández-Pérez, José L.) On smoothness of symmetric mappings.
Aseev, Vladislav V. (*with* Varisov, A. K.) Geometric definition for quasiconformality and plane labyrinths. (Russian and Uzbek summaries) **99j:30019**
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— Planar quasiconformal mappings; deformations and interactions. **99a:30025**
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Chen, Ji Xiu (*with* Chen, Zhi Guo) A remark on: "An approximation condition and extremal quasiconformal extension" [Proc. Amer. Math. Soc. **125** (1997), no. 5, 1479–1481; MR 97g:30018] by E. Reich. **99h:30021**
— *see also* **Chen, Zhi Guo; et al., 99c:30038** *and* **99i:30033**
Chen, Zhi Guo (*with* Chen, Ji Xiu; He, Cheng Qi) Functions with unbounded $\overline{\partial}$-derivative and their boundary functions. (English summary) **99c:30038**
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— (*with* Ryazanov, Vladimir I.) On equivalent conditions for asymptotic conformity of quasiconformal curves. (Russian) **99b:30026**
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— Zum lokalen quasikonformen Spiegelungskoeffizienten einer stückweis glatten Jordankurve. [On the local quasiconformal reflection coefficient of a piecewise smooth Jordan curve] **99m:30038**
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Li, Zhong[1] A convergence theorem on quasiconformal harmonic maps of the Poincaré disc. (English and Chinese summaries) **99g:30024**
MacManus, Paul (*with* Näkki, Raimo; Palka, Bruce) Quasiconformally homogeneous compacta in the complex plane. **99k:30031**
— (*with* Näkki, Raimo; Palka, Bruce) Quasiconformally bi-homogeneous compacta in the complex plane. **99j:30020**
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Samsoniya, Z. V. On quasiconformal mapping of close domains. (English summary)
Song, Ying Qing Deviation estimates for quasiconformal mappings. (Chinese. Chinese summary)
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— (*with* Lai, Wan Cai) Quasisymmetric boundary correspondences and Grötzsch's problem. (Chinese. Chinese summary)
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Chikvinidze, L. Local approximation of analytic functions and their derivatives in weight integral metrics in domains with a quasiconformal boundary. (English summary)
Daripa, Prabir (*with* Mashat, Daoud) An efficient and novel numerical method for quasiconformal mappings of doubly connected domains. (English summary) **99m:65052**
Dubejko, Tomasz Infinite branched circle packings and discrete complex polynomials. **99h:05025**
Earle, Clifford J. Some maximal holomorphic motions. **99e:58142**
— (*with* Gardiner, Frederick P.; Lakic, Nikola) Vector fields for holomorphic motions of closed sets. (English summary) **99f:30069**
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— Some results on the value distributions of quasiconformal mappings. (Chinese. English and Chinese summaries) **99d:30031**
Gardiner, Frederick P. *see* **Earle, Clifford J.; et al., 99f:30069**
Graczyk, Jacek (*with* Świątek, Grzegorz) Polynomial-like property for real quadratic polynomials. (English summary) **99k:58156**
— (*with* Świątek, Grzegorz) Generic hyperbolicity in the logistic family. **99b:58079**
Hoy, E. On Bernstein's theorem for quasiminimal surfaces. II. (English summary) **99f:53008**
Israfilov, D. M. Approximation by generalized Faber series in weighted Bergman spaces on finite regions with quasiconformal boundary. (English, Russian and Azerbaijani summaries) **99j:30039**
Kotochigov, A. M. (*with* Shirokov, N. A.) Free interpolation in Hölder classes in quasiconformal domains. (English summary) **99m:30075**
Kriete, Hartje Herman's proof of the existence of critical points on the boundary of singular domains. **99i:30042**
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McMullen, Curtis T. (*with* Sullivan, Dennis P.) Quasiconformal homeomorphisms and dynamics. III. The Teichmüller space of a holomorphic dynamical system. **99e:58145**
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— (*with* Martio, Olli; Ryazanov, Vladimir I.; Vuorinen, Matti K.) On convergence theorems for space quasiregular mappings. (English summary) **99f:30035**
— (*with* Martio, Olli; Ryazanov, Vladimir I.; Vuorinen, Matti K.) On local injectivity and asymptotic linearity of quasiregular mappings. (English summary) **99c:30044**
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Martio, Olli (*with* Srebro, Uri; Väisälä, Jussi) Normal families, multiplicity and the branch set of quasiregular maps. (English summary) **99m:30043**
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Nakai, Mitsuru Quasiisometric mappings and the variational capacity. **99e:30013**
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Seittenranta, Pasi Linear dilatation of quasiconformal maps in space. **99f:30036**
Seleznev, V. A. Quasiconformal isotopies. (Russian) (*see* **99a:00019**)
Semmes, Stephen Mappings and spaces. (English summary) **99c:30045**
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— *see also* **Chu, Yu Ming; et al., 99i:30035**
Srebro, Uri Non-existence of quasimeromorphic automorphic mappings. (English summary) **99j:30027**
— *see also* **Martio, Olli; et al., 99m:30043**
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— (*with* Sychev, A. V.) Various classes of n-dimensional mappings that are quasiconformal in the mean. (Russian) (*see* **99m:00019**)
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Trotsenko, D. A. Fractal lines and quasiconformal mappings. (Russian. Russian summary) **99f:30037**
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— *see also* **Martio, Olli; et al., 99m:30043**
Vuorinen, Matti K. Geometric properties of quasiconformal maps and special functions. I. Quasiconformal maps and spheres. (English and Polish summaries) **99m:30044a**
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Zhabbarov, N. M. On a geometric definition of quasiconformality in $\mathbf{R}^n$. (Russian) (*see* **99m:00019**)
Zorich, V. A. Quasiconformal embeddings of Riemannian manifolds, and a Picard-type theorem. (Russian) **99e:30015**

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Barbano, Paolo Emilio Automorphisms and quasi-conformal mappings of Heisenberg-type groups. (English summary) **99k:22014**
Beardon, Alan F. The Apollonian metric of a domain in $\mathbf{R}^n$. **99k:30075**
David, Guy (*with* Semmes, Stephen) ★ Fractured fractals and broken dreams. (English summary) **99h:28018**
— (*with* Semmes, Stephen) Quasiminimal surfaces of codimension 1 and John domains. (English summary) **99i:28012**
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Gutlyanskiĭ, V. Ya. (*with* Vuorinen, Matti K.) On maps almost conformal at the boundary. (English summary) **99c:30039**
Korányi, Adam (*with* Reimann, H. M.) Equivariant extension of quasiconformal deformations into the complex unit ball. **99g:32059**
Koskela, Pekka (*with* MacManus, Paul) Quasiconformal mappings and Sobolev spaces. (English summary) **99e:46042**
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Manfredi, Juan J. (*with* Villamor, Enrique) Traces of monotone Sobolev functions. (English summary) **99d:46050**
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— Sobolev classes and quasi-conformal mappings on Carnot-Carathéodory spaces. (English summary) **99m:46089**
— (*with* Greshnov, A. V.) Quasiconformal mappings and BMO spaces on metric structures [translation of *Algebra, geometry, analysis and mathematical physics (Russian) (Novosibirsk, 1996)*, 77–90, 190, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1997; MR 99e:46034]. (English summary)
— (*with* Ukhlov, A. D.) Sobolev spaces and (P, Q)-quasiconformal mappings of Carnot groups. (Russian. Russian summary) **99m:46090**
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30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

Airapetyan, G. M. On the Hilbert problem in the sense of L^p-convergence. (Russian. English and Russian summaries) **99f:30038**
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Avkhadiev, F. G. Variational conformally invariant inequalities and their applications. (Russian) **99k:30034**
Bakhtin, A. K. On the product of inner radii of symmetric nonoverlapping domains. (Russian. English and Ukrainian summaries) **99m:30045**
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Kirjackis, Edward G. Some variational formulas in the class $\tilde{K}_n(E)$ and their applications. **99m:30046**
Kuz'mina, G. V. Methods of the geometric theory of functions. II. (Russian. Russian summary) **99c:30047a**
— Erratum: "Methods of the geometric theory of functions. I, II" [Algebra i Analiz **9** (1997), no. 3, 41–103; MR 98h:30041; ibid. **9** (1997), no. 5, 1–50; MR 99c:30047a]. (Russian) **99c:30047b**
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Majchrzak, Wiesław (*with* Szwankowski, Andrzej) The maximum of some functional for holomorphic and univalent functions with real coefficients. (English summary) **99f:30040**
Nishikawa, Kinjiro (*with* Maitani, Fumio) Moduli of ring domains obtained by a conformal welding. (English summary) **99b:30028**
Nowakowski, Andrzej Limit process for a sequence of analytic extremal functions satisfying certain differential-functional equation. I, II. (English and Polish summaries) **99h:30025**
— An extremum in the full class of monotone functions. (English and Polish summaries) **99h:30026**
Rassias, Themistocles M. (*with* Shibata, Keiichi) Variational problem of some quadratic functionals in complex analysis. (English summary) **99k:30036**
Reich, Edgar The unique extremality counterexample. **99k:30037**
Shen, Yu Liang Notes on univalent functions and the universal Teichmüller space. (English and Chinese summaries) **99m:30047**
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30C99 None of the above, but in this section

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30Dxx Entire and meromorphic functions, and related topics

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Gao, Shi An (*with* Yang, Rong Hua) A problem on complex oscillations of homogeneous linear differential equations. (Chinese) **99g:34015**

Gao, Zong Sheng A fundamental inequality for quasialgebroid functions and its application. (Chinese. English and Chinese summaries) **99d:30036**

Gundersen, Gary G. (*with* Steinbart, Enid M.; Wang, Shupei) Solutions of nonhomogeneous linear differential equations with exceptionally few zeros. (English summary) **99g:34017**

Haddad, Labib *see* **Escassut, Alain; et al., 99m:30093**

He, Yu Zan (*with* Yang, Chung-Chun) Meromorphic functions that do not satisfy algebraic differential equations. (Chinese. Chinese summary) **99g:34018**

— Factorization of meromorphic solutions of ordinary differential equations. (English summary) **99b:34008**

Hua, Xin-Hou *see* **Zhou, Jiazhang, 99m:30054**

Ishizaki, Katsuya A result for a certain algebraic differential equation. (English summary) **99b:34009**

— Hypertranscendency of meromorphic solutions of a linear functional equation. (English summary) **99k:39070**

Kinnunen, Liisa (*with* Laine, Ilpo; Rieppo, Jarkko) Remarks concerning $f'' + A(z)f = 0$ and some fields of meromorphic functions. (English summary) **99a:34010**

Laine, Ilpo (*with* Wu, Shengjian) Removable sets in the oscillation theory of complex differential equations. (English summary) **99h:34004**

— *see also* **Kinnunen, Liisa; et al., 99a:34010**

Langley, J. K. Quasiconformal modifications and Bank-Laine functions. (English summary) **99e:34004**

Li, Ye Zhou The oscillation theory of the equation $f'' + B_1 f' + B_0 f = H(z)$. (Chinese. English and Chinese summaries) **99h:34005**

Rieppo, Jarkko *see* **Kinnunen, Liisa; et al., 99a:34010**

Rossi, John *see* **Fenton, P. C., 99k:30044**

Shirosaki, Manabu On polynomials which determine holomorphic mappings. **99b:30035**

Steinbart, Enid M. *see* **Gundersen, Gary G.; et al., 99g:34017**

Sun, Dao Chun Value distribution of random series. (English summary) **99d:60020**

Vidal, Robert *see* **Escassut, Alain; et al., 99m:30093**

Wang, Shupei *see* **Gundersen, Gary G.; et al., 99g:34017**

Wang, Yuefei *see* **Frank, Günter, 99b:34006**

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Yang, Chung-Chun *see* **Cherry, William A., 99f:11154** *and* **He, Yu Zan, 99g:34018**

Yang, Rong Hua *see* **Gao, Shi An, 99g:34015**

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Zhou, Jiazhang (*with* Hua, Xin-Hou) Relative primeness of entire functions. (English summary) **99m:30054**

Zhuang, Qi Tai On theorems of Frank-Weissenborn and Hayman-Miles. (English and Chinese summaries) **99b:30036**

30D40 Cluster sets, prime ends, boundary behavior

Bshouty, Daoud (*with* Hengartner, Walter) Boundary values versus dilatations of harmonic mappings. (English summary) **99c:30061**

Duren, Peter (*with* Hengartner, Walter) Harmonic mappings of multiply connected domains. (English summary) **99f:30051**

Fernández-Pérez, José L. (*with* Nicolau, Artur) Boundary behaviour of inner functions and holomorphic mappings. (English summary) **99c:30062**

Hengartner, Walter *see* **Bshouty, Daoud, 99c:30061** *and* **Duren, Peter, 99f:30051**

Kolesnikov, S. V. Sets of points of radial continuity of analytic functions. (Russian. English summary) **99i:30050**

Kruglikov, V. I. Cluster sets of a sequence of functions. (Russian) **99b:30051**

Layek, A. K. Intersection properties of directional essential cluster sets. (English summary) **99f:30052**

Nicolau, Artur *see* **Fernández-Pérez, José L., 99c:30062**

Toda, Nobushige On the fine cluster set of holomorphic curves. (English summary) **99b:30052**

Twomey, J. B. Radial variation of functions in Dirichlet-type spaces. **99d:30033**

Items with secondary classifications in 30D40

Beardon, Alan F. Analytic contraction of the unit disc. (English summary) **99b:30030**

Fernández-Pérez, José L. On asymptotic values of subharmonic functions (English summary) **99h:31013**

Georgijević, Dušan R. Radial limits in some analytic spaces. (English summary) **99k:46038**
Hamdan, May Positive cases to the branch point problem. (English summary) **99c:30002**
Kolesnikov, S. V. Some remarks on descriptive-metric characteristics of singular sets of analytic functions. (Russian. Russian summary) **99i:31002**

30D45 Bloch functions, normal functions, normal families

Anderson, James Milne (*with* Hinkkanen, Aimo) Unbounded domains of normality. (English summary) **99a:30034**
Aulaskari, Rauno (*with* Nowak, Maria; Zhao, Ruhan) The nth derivative characterisation of Möbius invariant Dirichlet space. (English summary) **99i:30051**
— (*with* He, Yu Zan; Ristioja, Juha; Zhao, Ruhan) Q_p spaces on Riemann surfaces. (English summary) **99g:30045**
Blasco, Oscar (*with* Girela, Daniel; Márquez, M. Auxiliadora) Mean growth of the derivative of analytic functions, bounded mean oscillation, and normal functions. (English summary) **99m:30068**
Cantón, Alicia Singular measures and the little Bloch space. (English summary) **99g:30046**
Chen, Huaihui (*with* Lappan, Peter) Products of spherical derivatives and normal functions. (English summary) **99g:30047**
Essén, Matts (*with* Wu, Shengjian) Fix-points and a normal family of analytic functions. (English summary) **99m:30069**
Gauthier, Paul M. (*with* Xiao, Jie[1]) Functions of bounded expansion: normal and Bloch functions. (English summary) **99m:30070**
Gavrilov, V. I. (*with* Zakharyan, V. S.) Nontangent growth and boundedness of normal holomorphic functions. (Russian. Armenian summary) **99k:30058**
Girela, Daniel *see* **Blasco, Oscar; et al., 99m:30068**
He, Yu Zan *see* **Aulaskari, Rauno; et al., 99g:30045**
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Huang, Fang Lun The boundedness of the Cesàro operator on the Bloch space. (Chinese. English and Chinese summaries) **99i:30052**
Huang, Xin Zhong (*with* Owa, Shigeyoshi) On Bloch functions and the contraction of Teichmüller metrics. (English summary) **99b:30053**
Jenkins, James A. On the schlicht Bloch constant. II. (English summary) **99m:30071**
Koumandos, Stamatis Monotonic trigonometric sums and coefficients of Bloch functions. (English summary) **99j:30037**
Lappan, Peter *see* **Chen, Huaihui, 99g:30047**
Makhmutov, Sh. A. Integral characterizations of Bloch functions. (English summary) **99c:30063**
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Nowak, Maria *see* **Aulaskari, Rauno; et al., 99i:30051**
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— Some problems on normal and little normal functions. (English summary) **99m:30072**
Xiao, Jie[1] Extension of a theorem of Zygmund. (English summary) **99e:30025**
— *see also* **Gauthier, Paul M., 99m:30070**
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Zalcman, Lawrence Normal families: new perspectives. (English summary) **99g:30048**
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Items with secondary classifications in 30D45

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Blasco, Oscar *see* **Arregui Casaus, José Luis, 99b:46049**
Choe, Boo Rim (*with* Lee, Young Joo) On $\mathscr{M}$-harmonic Bloch functions and their Carleson measures. (English summary) **99i:32006**
Choi, Ki Seong (*with* Yang, Gye Tak) Operators on generalized Bloch space. (English summary) **99g:47061**
Godula, Janusz (*with* Starkov, V. V.) Univalence of integrals of $(f')^\lambda$, and Bloch functions [MR 98c:30043]. (Russian. English and Russian summaries)
Kondratyuk, A. A. (*with* Tarasyuk, Svyatoslav I.) Compact operators and normal families of subharmonic functions. **99a:31003**
Lee, Young Joo *see* **Choe, Boo Rim, 99i:32006**
Makhmutov, Sh. A. Hyperbolic Besov functions and Bloch-to-Besov composition operators. (English summary) **99g:47071**
Martio, Olli (*with* Srebro, Uri; Väisälä, Jussi) Normal families, multiplicity and the branch set of quasiregular maps. (English summary) **99m:30043**
Pavićević, Žarko (*with* Šušić, Jela) Boundary behavior of subharmonic functions on the unit disk. (English summary) **99m:31005**
Srebro, Uri *see* **Martio, Olli; et al., 99m:30043**
Starkov, V. V. *see* **Godula, Janusz**
Šušić, Jela *see* **Pavićević, Žarko, 99m:31005**
Tan, Hai Ou On subspaces of Bloch space and series with Hadamard gaps. (English and Chinese summaries) **99k:30062**
— *see also* **Xiao, Jie[1], 99g:46021**
Tarasyuk, Svyatoslav I. *see* **Kondratyuk, A. A., 99a:31003**
Väisälä, Jussi *see* **Martio, Olli; et al., 99m:30043**
Vinson, Jade P. *see* **Baernstein, Albert, II, 99m:30036**
Xiao, Jie[1] (*with* Tan, Hai Ou) p-Bergman spaces, α-Bloch spaces, little α-Bloch spaces, and Cesàro means. (Chinese. Chinese summary) **99g:46021**
Yang, Gye Tak *see* **Choi, Ki Seong, 99g:47061**

30D50 Blashke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

Aulaskari, Rauno (*with* Tovar, Luis Manuel) On the function spaces $\mathscr{B}^p$ and Q_q. (English summary) **99b:30054**
Dyakonov, Konstantin M. Multiplicative structure in weighted BMOA spaces. (English summary) **99g:30049**
Hayashi, Mikihiro (*with* Kato, Takao) Point separation of a two-sheeted disc by bounded analytic functions. (English summary) **99k:30060**
Hayman, W. K. Identity theorems for functions of bounded characteristic. **99m:30073**
Horowitz, Charles Factorization of functions in generalized Nevanlinna classes. (English summary) **99f:30053**
Izuchi, Keiji Weak infinite powers of Blaschke products. (English summary) **99k:30061**
— Spreading Blaschke products and homeomorphic parts. (Japanese) (*see* **99i:00018**)
Kato, Takao *see* **Hayashi, Mikihiro, 99k:30060**
MacGregor, Thomas H. (*with* Sterner, M. P.) Boundedness of an analytic function and the range of its fractional derivative. (English summary) **99m:30074**
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Waadeland, Haakon A convergence result for regular Blaschke fractions. **99d:30034**
Wu, Gui Rong (*with* Ouyang, Cai Heng) The function class N^+. (Chinese. English and Chinese summaries) **99k:30063**
Wulan, Hasi A problem for analytic functions of bounded and vanishing mean oscillation. (English summary) **99e:30026**

Items with secondary classifications in 30D50

Aulaskari, Rauno (*with* Nowak, Maria; Zhao, Ruhan) The nth derivative characterisation of Möbius invariant Dirichlet space. (English summary) **99i:30051**
Blasco, Oscar (*with* Girela, Daniel; Márquez, M. Auxiliadora) Mean growth of the derivative of analytic functions, bounded mean oscillation, and normal functions. (English summary) **99m:30068**
Bochkarëv, S. V. On a method for estimating the L_1-norm of an exponential sum. (Russian) **99h:11093**
Bourdon, P. S. (*with* Cima, Joseph; Matheson, A. L.) Compact composition operators on BMOA. (English summary) **99i:47052**
Bruĭ, I. N. (*with* Schmieder, Gerald) Real trigonometric series of class BMO and $(C, 1)$-means. (English summary) **99i:42022**
Cima, Joseph *see* **Bourdon, P. S.; et al., 99i:47052**
Dyn'kin, Evsey Inequalities for rational functions. (English summary) **99a:41010**
Girela, Daniel *see* **Blasco, Oscar; et al., 99m:30068**
Guillory, Carroll (*with* Li, Kin Y.) Algebras of Blaschke products unimodular on trivial parts. (English summary) **99e:46064**
Kaashoek, M. A. (*with* Pik, D. R.) Factorization of lower triangular unitary operators with finite Kronecker index into elementary factors. (English summary) **99i:47035**
Lárusson, Finnur (*with* Lassere, Patrice; Sigurdsson, Ragnar) Convexity of sublevel sets of plurisubharmonic extremal functions. (English summary) **99d:32018**
Lassere, Patrice *see* **Lárusson, Finnur; et al., 99d:32018**
Li, Kin Y. *see* **Guillory, Carroll, 99e:46064**
Luo, Donghan (*with* MacGregor, Thomas H.) Multipliers of fractional Cauchy transforms and smoothness conditions. (English summary) **99d:30040**
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Matheson, A. L. *see* **Bourdon, P. S.; et al., 99i:47052**
Nicolau, Artur (*with* Xiao, Jie[1]) Bounded functions in Möbius invariant Dirichlet spaces. (English summary) **99b:46028**
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Øyma, Knut The closed convex hull of the interpolating Blaschke products. (English summary) **99a:46098**
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Popovici, Irina *see* **Vol'berg, A. L., 99g:30033**
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Smith, Wayne Stewart Compactness of composition operators on BMOA. (English summary) **99m:47040**
Suárez, Daniel Approximation by ratios of bounded analytic functions. (English summary) **99m:46129**
— Maximal Gleason parts for H^∞. **99b:46077**
Vol'berg, A. L. (*with* Popovici, Irina) On the harmonic measure on the Julia set of Blaschke products with one petal. (Russian. Russian summary) **99g:30033**
Wulan, Hasi On some classes of meromorphic functions. **99k:30059**
Xiao, Jie[1] The $\overline{\partial}$-problem for multipliers of the Sobolev space. (English summary) **99g:46047**
— *see also* **Nicolau, Artur, 99b:46028**
Zhao, Ruhan *see* **Aulaskari, Rauno; et al., 99i:30051**

30D55 H^p-classes

Cohn, William S. A factorization theorem for the derivative of a function in H^p. (English summary) **99c:30064**
Danikas, N. (*with* Hayman, W. K.) Domination on sets and in H^p. (English summary) **99f:30054**
Fedorov, Sergeĭ Igor'evich Weighted norm inequalities and the Muckenhoupt condition in a multiply connected domain. (English summary) **99k:30064**
Hayman, W. K. *see* **Danikas, N., 99f:30054**
Kwon, Ern Gun Weighted subspaces of Hardy spaces and area integrals. (English summary) **99k:30065**

Soldatkin, P. A. On H^∞-disks pasted to completely real manifolds. (Russian) **99d:30035**
Thomas, Pascal J. Sampling sets for Hardy spaces of the disk. (English summary) **99a:30035**

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Aleman, Alexandru (*with* Richter, Stefan) Simply invariant subspaces of H^2 of some multiply connected regions. **99b:47010a**
— (*with* Richter, Stefan) Erratum: "Simply invariant subspaces of H^2 of some multiply connected regions". **99b:47010b**
Alpay, Daniel (*with* Bolotnikov, Vladimir; Rodman, Leiba) Tangential interpolation with symmetries and two-point interpolation problem for matrix-valued H_2-functions. (English summary) **99h:47021**
Avelin, Jonas Hardy spaces of analytic multifunctions. (English summary) **99a:46064**
Beneker, Paul Strongly exposed points, Helson-Szegő weights and Toeplitz operators. (English summary) **99f:47032**
Björn, Anders Removable singularities on rectifiable curves for Hardy spaces of analytic functions. (English summary) **99m:46065**
Blasco, Oscar (*with* Girela, Daniel; Márquez, M. Auxiliadora) Mean growth of the derivative of analytic functions, bounded mean oscillation, and normal functions. (English summary) **99m:30068**
Bochkarëv, S. V. On a method for estimating the L_1-norm of an exponential sum. (Russian) **99h:11093**
Bolotnikov, Vladimir *see* **Alpay, Daniel; et al., 99h:47021**
Bonilla, A. (*with* Pérez-González, Fernando[2]; Stray, A.; Trujillo-González, R.) Approximation in weighted Hardy spaces. (English summary) **99b:30058**
Domenig, Thomas Order bounded and p-summing composition operators. (English summary) **99a:47043**
— (*with* Jarchow, Hans; Riedl, Reinhard) The domain space of an analytic composition operator. (English summary) **99k:47063**
Dyakonov, Konstantin M. Embedding theorems for star-invariant subspaces generated by smooth inner functions. (English summary) **99k:46034**
— Besov spaces and outer functions. **99e:46033**
Ephremidze, L. On approximate factorization of the spectral measures of stationary processes. (English and Georgian summaries) **99g:60080**
Fedorov, Sergeĭ Igor'evich On harmonic analysis in a multiply connected domain and character-automorphic Hardy spaces. (Russian) **99d:32046**
Fisher, Stephen D. (*with* Shapiro, Jonathan E.) The essential norm of a composition operator on a planar domain. (English summary) **99k:47065**
Girela, Daniel *see* **Blasco, Oscar; et al., 99m:30068**
Golubov, B. I. On Hardy and Bellman transformations of H^1 and BMO spaces. (Russian)
Haslinger, Friedrich Bergman and Hardy spaces on model domains. **99f:32004**
Huang, Fang Lun The boundedness of the Cesàro operator on the Bloch space. (Chinese. English and Chinese summaries) **99i:30052**
Izuchi, Keiji Weak infinite powers of Blaschke products. (English summary) **99k:30061**
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Márquez, M. Auxiliadora *see* **Blasco, Oscar; et al., 99m:30068**
Miclăuş, Gh. Some integral operators and Hardy classes. (English summary) **99g:30014**
Mitrea, Irina (*with* Mitrea, Marius) Monogenic Hardy spaces on Lipschitz domains and compensated compactness. (English summary) **99a:42015**
Mitrea, Marius *see* **Mitrea, Irina, 99a:42015**
Peng, Zhi Gang A sufficient condition for $k'(z)$ $(k(z) \in H^q,\ q \geq 1)$ to be of H^1. (English summary) **99k:46035**
Pérez-González, Fernando[2] *see* **Bonilla, A.; et al., 99b:30058**
Ren, Guang-bin *see* **Shi, Ji-huai, 99b:47047**
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Riedl, Reinhard *see* **Domenig, Thomas; et al., 99k:47063**
Rodman, Leiba *see* **Alpay, Daniel; et al., 99h:47021**
Ryan, John The Fourier transform on the sphere. (English summary) **99h:42012**
Shapiro, Jonathan E. *see* **Fisher, Stephen D., 99k:47065**
Shi, Ji-huai (*with* Ren, Guang-bin) Boundedness of the Cesàro operator on mixed norm spaces. (English summary) **99b:47047**
Singh, Dinesh[1] (*with* Thukral, Virender) Invariant subspaces of shifts on the Hardy spaces of the circle and the torus. (English summary) **99g:47012**
Stray, A. *see* **Bonilla, A.; et al., 99b:30058**
Thukral, Virender *see* **Singh, Dinesh[1], 99g:47012**
Trujillo-González, R. *see* **Bonilla, A.; et al., 99b:30058**
Yi, Heungsu Poisson integrals contained in harmonic Bergman spaces on upper half-space. (English summary) **99g:31009**

30D60 Quasi-analytic and other classes of functions

Gao, Zong Sheng A fundamental inequality for quasialgebroid functions and its application. (Chinese. English and Chinese summaries) **99d:30036**
Mazalov, M. Ya. An example of a nonconstant bianalytic function vanishing everywhere on a nowhere analytic boundary. (Russian) **99c:30065**

Items with secondary classifications in 30D60

Neelon, Tejinder S. Ultradifferentiable functions on lines in $\mathbf{R}^n$. (English summary) **99j:46044**

30D99 None of the above, but in this section

Ostrovskiĭ, I. V. (*with* Zheltukhina, N. A.) Parametric representation of a class of multiply positive sequences.
Yu, Xiu Yuan A theorem on the transcendency of a function. (English summary) **99e:30027**
Yuan, Wen Jun A note on a result about complex oscillations of the differential equation $f'' + (Q_1 e^P + Q_2) f = 0$. (Chinese. English and Chinese summaries) **99d:30037**
Zheltukhina, N. A. *see* **Ostrovskiĭ, I. V.**

Items with secondary classifications in 30D99

Danielyan, Arthur A. (*with* Schmieder, Gerald) Topological properties of level-sets of entire functions. (English summary) **99e:30028**
Iida, Yasuo (*with* Mochizuki, Nozomu) Isometries of some F-algebras of holomorphic functions. (English summary) **99h:30050**
Merzlyakov, S. G. A generalization of Laguerre theorems on zeros of entire functions. (Russian. Russian summary) **99g:30006**
Mochizuki, Nozomu *see* **Iida, Yasuo, 99h:30050**
Schmieder, Gerald *see* **Danielyan, Arthur A., 99e:30028**
Zhu, Kehe Restriction of the Bergman shift to an invariant subspace. **99a:47051**

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

Alpay, Daniel (*with* Bolotnikov, Vladimir) On tangential interpolation in reproducing kernel Hilbert modules and applications. (English summary) **99b:30055**
Bolotnikov, Vladimir *see* **Alpay, Daniel, 99b:30055**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) A rational moment problem on the unit circle. (English summary) **99b:30056**
— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and interpolatory product rules on the unit circle. I. Recurrence and interpolation. (English summary) **99i:30053**
— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and interpolatory product rules on the unit circle. II. Quadrature and convergence. (English summary) **99i:30054**
Georgijević, Dušan R. Interpolation problems of Loewner type with finitely many nodes. (English summary) **99i:30055**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al., 99b:30056; 99i:30053** *and* **99i:30054**
Hatori, Osamu The Shapiro-Shields theorem on finite connected domains. (Japanese) (*see* **99i:00018**)
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 99b:30056; 99i:30053** *and* **99i:30054**
Ismail, Mourad E. H. (*with* Valent, Galliano) On a family of orthogonal polynomials related to elliptic functions. **99k:30066**
Kerov, Sergei Interlacing measures. (English summary) **99h:30034**
Kotochigov, A. M. (*with* Shirokov, N. A.) Free interpolation in Hölder classes in quasiconformal domains. (English summary) **99m:30075**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 99b:30056; 99i:30053** *and* **99i:30054**
Polster, Burkard Integrating n-unisolvent sets of functions. (English summary) **99b:30057**
Rovba, E. A. (*with* Rusak, V. N.) On the rate of approximation by interpolation rational operators with specified poles. (Russian. English and Russian summaries) **99m:30076**
Rusak, V. N. *see* **Rovba, E. A., 99m:30076**
Shirokov, N. A. *see* **Kotochigov, A. M., 99m:30075**
Valent, Galliano *see* **Ismail, Mourad E. H., 99k:30066**
Wawrzyńczyk, Antoni Three views of the unit disk. (Spanish. Spanish summary) **99k:30067**

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Alpay, Daniel ★ Algorithme de Schur, espaces à noyau reproduisant et théorie des systèmes. (French. English and French summaries) [The Schur algorithm, reproducing kernel spaces and systems theory] **99g:47016**
— (*with* Bolotnikov, Vladimir; Dijksma, Aad) On the Nevanlinna-Pick interpolation problem for generalized Stieltjes functions. (English summary) **99k:47032**
— (*with* Bolotnikov, Vladimir) Carathéodory-Fejér problem for pairs of meromorphic functions. (English summary) **99m:47015**
— (*with* Bolotnikov, Vladimir) On the tangential interpolation problem for matrix-valued H_2-functions of two variables. (English summary) **99i:47024**
— (*with* Rovnyak, James) Loewner's theorem for kernels having a finite number of negative squares. (English summary) **99m:47013**
Arov, Damir Z. (*with* Dym, Harry) On three Krein extension problems and some generalizations. (English summary) **99f:47019**
Berg, Christian (*with* Durán Guardeño, Antonio J.) Orthogonal polynomials, L^2-spaces and entire functions. (English summary) **99c:42042**
Bisgaard, Torben Maack Extensions of Hamburger's theorem. **99k:44015**
Boĭko, S. S. (*with* Dubovoĭ, V. K.) Factorization of radii of the Weyl limit disk in the degenerate Schur interpolation problem. (Russian. English, Russian and Ukrainian summaries) **99a:47023**
Bolotnikov, Vladimir (*with* Dym, Harry) On degenerate interpolation, entropy and extremal problems for matrix Schur functions. (English summary) **99m:47014**
— *see also* **Alpay, Daniel, 99i:47024; 99k:47032** *and* **99m:47015**
de Bruin, M. G. (*with* Sharma, Ambikeshwar; Szabados, J.) Birkhoff type interpolation on perturbed roots of unity. (English summary) **99c:41003**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Interpolation of Nevanlinna functions by rationals with poles on the real line. (English summary) **99h:41020**
Chen, Gong-Ning (*with* Li, Xiao-Qing[2]) The Nevanlinna-Pick interpolation problems and power moment problems for matrix-valued functions. (English summary) **99m:47016**
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Asymptotics of extreme zeros of the Meixner-Pollaczek polynomials. (English summary) **99c:33014**
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Constantinescu, Tiberiu (*with* Gheondea, Aurelian) On the Carathéodory type problem of M. G. Kreĭn and H. Langer. (English and French summaries) **99i:47025**
Curto, Raúl E. (*with* Fialkow, Lawrence A.) Flat extensions of positive moment matrices: recursively generated relations. (English summary) **99d:47015**
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Durán Guardeño, Antonio J. The Hausdorff moment problem with complex exponents and a Müntz-Szasz theorem for distributions. (English summary) **99b:44009**
— *see also* **Berg, Christian**, **99c:42042**
Duverney, Daniel Expansion in Newton interpolation series and U-Laplace transform. (English summary) **99f:30061**
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— *see also* **Arov, Damir Z.**, **99f:47019** *and* **Bolotnikov, Vladimir**, **99m:47014**
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Foias, Ciprian (*with* Frazho, A. E.; Gohberg, Israel; Kaashoek, M. A.) ★ Metric constrained interpolation, commutant lifting and systems. (English summary) **99i:47027**
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Gal, Sorin G. Approximation and interpolation of functions of hyperbolic complex variable. (English summary) **99g:41028**
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— (*with* Sharma, Ambikeshwar) Hermite interpolation on Chebyshev nodes and Walsh equiconvergence. II. (English summary) **99m:41002**
Jones, William B. (*with* Shen, Guoxiang) Regular strong Hamburger moment problem. **99m:44011**
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Langer, Heinz (*with* Woracek, Harald) Resolvents of symmetric operators and the degenerated Nevanlinna-Pick problem. (English summary) **99h:47043**
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Ostrovskiĭ, I. V. (*with* Zheltukhina, N. A.) On power series having sections with multiply positive coefficients and a theorem of Pólya. **99k:30047**
Putinar, Mihai Matrix analysis and the Friedrichs operator of a quadrature domain. (English summary) **99a:47039**
Rahman, Qazi I. *see* **Grozev, Georgi R.**, **99h:41026**
Rapisarda, Paolo (*with* Willems, Jan C.) The subspace Nevanlinna interpolation problem and the most powerful unfalsified model. (English summary) **99b:93027**
Rovnyak, James *see* **Alpay, Daniel**, **99m:47013**
Sakhnovich, L. A. ★ Interpolation theory and its applications. (English summary) **99j:47016**
Schuster, Alexander P. (*with* Seip, Kristian) A Carleson-type condition for interpolation in Bergman spaces. (English summary) **99f:46034**
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Struppa, Daniele C. On the "grouping" phenomenon for holomorphic solutions of infinite order differential equations. **99f:32011**
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Treĭl', S. R. Unconditional bases of invariant subspaces of a contraction with finite defects. (English summary) **99g:47018**
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Tu, Xingyuan *see* **Tu, Tianliang**, **99m:41006**
Voss, Jürgen J. Interpolation formulas for harmonic functions. (English summary) **99m:41007**
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30E10 Approximation in the complex domain

Al-oushoush, Nizar *see* **Mu, Le Hua**, **99i:30057**
Arutyunyan, G. V. (*with* Martirosyan, V. A.) On a uniformly tangent approximation by lacunary power series on Carleman sets. II. (Russian. Russian summary) **99f:30058**
Bensuda, Ch. (*with* Gauthier, Paul M.) Superharmonic approximation on a closed set. (Russian. English and Russian summaries) **99j:30038**
Bonilla, A. (*with* Pérez-González, Fernando[2]; Stray, A.; Trujillo-González, R.) Approximation in weighted Hardy spaces. (English summary) **99b:30058**
Boyd, John Philip Global approximations to the principal real-valued branch of the Lambert W-function. (English summary) **99h:30035**
Chikvinidze, L. Local approximation of analytic functions and their derivatives in weight integral metrics in domains with a quasiconformal boundary. (English summary)
Danielyan, Arthur A. (*with* Rubel, Lee A.) Uniform approximation by entire functions that are all bounded on a given set. (English summary) **99i:30056a**
— (*with* Schmieder, Gerald) Topological properties of level-sets of entire functions. (English summary) **99e:30028**
— (*with* Rubel, Lee A.) Erratum: "Uniform approximation by entire functions that are all bounded on a given set". **99i:30056b**
Gaier, Dieter Complex approximation on touching domains. (English summary) **99a:30036**
Gauthier, Paul M. *see* **Bensuda, Ch.**, **99j:30038**
Israfilov, D. M. Approximation by generalized Faber series in weighted Bergman spaces on finite regions with quasiconformal boundary. (English, Russian and Azerbaijani summaries) **99j:30039**
— Approximation by generalized Faber series in weighted Bergman spaces on finite domains with quasi-conformal boundary. (English summary) **99d:30038**
Kovacheva, R. K. An analogue of Montel's theorem to rational approximating sequences. **99e:30029**
Liu, Kai Di (*with* Mo, Guo Duan) Approximation by rational functions in closed bounded sets in the complex plane. (Chinese. English and Chinese summaries)
Luh, Wolfgang (*with* Martirosyan, V. A.; Müller, Jürgen[3]) T-universal functions with lacunary power series. (English summary) **99f:30055**
Maĭmeskul, V. V. Polynomial approximation of piecewise-analytic functions on arcs. (Russian. English summary) **99c:30066**
Martínez-Finkelshtein, Andrei Trajectories of quadratic differentials and approximations of exponents on the semiaxis. (English summary) **99f:30056**
Martirosyan, V. A. On a uniformly tangent approximation by lacunary power series on Carleman sets. (Russian. Russian summary) **99f:30057**
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Mikhaĭlova, A. V. Convolution of Faber series. (Russian. English and Russian summaries) **99f:30059**
Mo, Guo Duan *see* **Liu, Kai Di**
Montes-Rodríguez, Alfonso Vector spaces of universal functions. (English summary) **99c:30067**
Morozova, I. M. Approximation of zero by a scalar product of integer-valued vectors and an analytic vector function. (Russian. English and Russian summaries) **99m:30077**
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Müller, Jürgen[3] (*with* Wengenroth, Jochen) Separating singularities of holomorphic functions. (English summary) **99g:30050**
— *see also* **Luh, Wolfgang; et al.**, **99f:30055**
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Rubel, Lee A. *see* **Danielyan, Arthur A.**, **99i:30056a** *and* **99i:30056b**
Schmieder, Gerald *see* **Danielyan, Arthur A.**, **99e:30028**
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Akeroyd, John (*with* Saleeby, Elias G.) A class of $P^t(d\mu)$ spaces whose point evaluations vary with t. (English summary) **99c:46020**
Ambroladze, Amiran (*with* Wallin, Hans) Extremal polynomials with preassigned zeros and rational approximants. (English summary) **99a:41016**
— (*with* Wallin, Hans) Rational interpolants with preassigned poles, theoretical aspects. (English summary) **99m:41022**
Aziz, Abdul[1] (*with* Zargar, B. A.) Inequalities for a polynomial and its derivative. (English summary) **99h:30001**
Baratchart, L. (*with* Olivi, Martine) Critical points and error rank in best H_2 matrix rational approximation of fixed McMillan degree. (English summary) **99g:15025**
— (*with* Leblond, Juliette; Mandréa, F.; Saff, Edward B.) How can the meromorphic approximation help to solve some 2D inverse problems for the Laplacian? (English summary) **99j:35228**
Bhat, Aijaz Ahmad *see* **Dewan, K. K.**, **99m:30007**
Boivin, André (*with* Paramonov, P. V.) Approximation by meromorphic and entire solutions of elliptic equations in Banach spaces of distributions. (Russian. Russian summary) **99i:41019**
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Dewan, K. K. (*with* Bhat, Aijaz Ahmad) On the maximum modulus of polynomials not vanishing inside the unit circle. (English summary) **99m:30007**
Dovgosheĭ, A. A. Polynomial approximation on compact sets of zero logarithmic capacity, and the analyticity of functions. (Russian. English summary) **99c:41009**
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Gorokhov, Yu. A. Approximation by harmonic functions in the C^m-norm, and the harmonic C^m-capacity of compact sets in $\mathbf{R}^n$. (Russian. Russian summary) **99g:41029**
Govil, Narendra K. An L^p inequality for self-inversive polynomials. (English summary) **99b:30002**
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Israfilov, D. M. Uniform convergence of some extremal polynomials in domains with quasiconformal boundary. (English summary) **99k:41009**
Jakimovski, Amnon (*with* Sharma, Ambikeshwar) Hermite interpolation on Chebyshev nodes and Walsh equiconvergence. (English summary) **99f:41004**
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Jiang, Yao Lin *see* **Wing, Omar; et al., 99h:41023**
Khadzhiĭski, Vanya Kh. Distributions of zeros of a sequence of best rational approximants. **99g:30005**
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López Lagomasino, G. *see* **de la Calle Ysern, B., 99i:42035**
Lubinsky, D. S. On the diagonal Padé approximants of meromorphic functions. (English summary) **99b:41009**
L'vin, S. Ya. Approximation by analytic and harmonic functions, incompressible vector fields, and temperature distributions. (English summary) **99g:41030**
Malinnikova, E. V. (*with* Khavin, Viktor Petrovich) Uniform approximation by harmonic differential forms. A constructive approach. (Russian. Russian summary) **99g:58005**
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Matos, Ana C. Integral representation of the error and asymptotic error bounds for generalized Padé type approximants. (English summary) **99c:41033**
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Pritsker, I. E. (*with* Varga, Richard S.) Weighted polynomial approximation in the complex plane. (English summary) **99j:41015**
— Polynomial approximation with varying weights on compact sets of the complex plane. (English summary) **99a:41027**
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Shirokov, N. A. Approximation by polynomials on compacta with infinitely connected complement. (Russian. Russian summary) **99j:42002**
Stahl, Herbert The convergence of Padé approximants to functions with branch points. (English summary) **99a:41017**
— Spurious poles in Padé approximation. (English summary) **99k:41019**
Suárez, Daniel Approximation by ratios of bounded analytic functions. (English summary) **99m:46129**
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Wing, Omar (*with* Jiang, Yao Lin; Yu, Qing-Jian) Rational approximation of irrational functions by linear fractional transformations. (English summary) **99h:41023**
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Živorad, Tomovski On the density on some special functions in L^2 space and in complex region. (English and Macedonian summaries) **99i:42013**

30E15 Asymptotic representations in the complex domain

Gawronski, Wolfgang (*with* Gröling, Alexander) Oscillating asymptotics for $\sum_0^\infty \log^k(n+1)z^n$. (English summary) **99a:30037**
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Barrios, Dolores (*with* López Lagomasino, G.) Ratio asymptotics for polynomials orthogonal on arcs of the unit circle. (English summary) **99j:42033**
Driver, Kathy A. (*with* Temme, Nico M.) Asymptotics and zero distribution of Padé polynomials associated with the exponential function. (English summary) **99b:41008**
Guillemin, Fabrice (*with* Pinchon, Didier) Continued fraction analysis of the duration of an excursion in an $M/M/\infty$ system. (English summary) **99b:60157**
Kamimoto, Joe On an integral of Hardy and Littlewood. **99c:58158**
Kaminski, D. (*with* Paris, R. B.) Asymptotics via iterated Mellin-Barnes integrals: application to the generalised Faxén integral. (English summary) **99a:41048**
López García, José Luis Asymptotic expansions of integrals: the term-by-term integration method. (English summary) **99k:41051**
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Norfolk, Timothy S. On the zeros of the partial sums to ${}_1F_1(1;b;z)$. (English summary) **99e:30003**
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30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

Abu Muhanna, Yusuf Cauchy transforms and multipliers. (English summary) **99b:30059**
— (*with* Yallaoui, El-Bachir) On families of Cauchy transforms. (English summary) **99k:30068**
Aizenberg, Lev (*with* Tumanov, Alexander; Vidras, Alekos) The class of holomorphic functions representable by Carleman formula. (English summary) **99j:30040**
Aliev, B. G. The A-integral and its applications in the theory of functions. (Russian. English and Azerbaijani summaries) **99m:30078**
Duverney, Daniel Expansion in Newton interpolation series and U-Laplace transform. (English summary) **99f:30061**
Everitt, W. N. (*with* Hayman, W. K.; Nasri-Roudsari, G.) On the representation of holomorphic functions by integrals. (English summary) **99j:30041**
— (*with* Nasri-Roudsari, G.; Rehberg, J.) A note on the analytic form of the Kramer sampling theorem. (English summary) **99h:30036**
Hallenbeck, D. J. (*with* Samotij, K.) On properties of Cauchy transforms. (English summary) **99f:30062**
— (*with* Samotij, K.) On properties of multipliers of Cauchy transforms. (English summary) **99g:30051**
Hayman, W. K. *see* **Everitt, W. N.; et al., 99j:30041**
Jiang, Run Rong A generalization of the basic theorem on residues and its application. (Chinese. Chinese summary) **99d:30039**
Khuskivadze, G. A. *see* **Paatashvili, V. A., 99j:30042**
Král, Josef (*with* Medková, Dagmar) On the Neumann-Poincaré operator. (English summary) **99k:30069**
Luo, Donghan (*with* MacGregor, Thomas H.) Multipliers of fractional Cauchy transforms and smoothness conditions. (English summary) **99d:30040**
MacGregor, Thomas H. *see* **Luo, Donghan, 99d:30040**
Medková, Dagmar Reflected double layer potentials and Cauchy's operators. (English summary) **99m:30079**
— *see also* **Král, Josef, 99k:30069**
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Paatashvili, V. A. (*with* Khuskivadze, G. A.) On the inclusion of the Cauchy type integrals into the Smirnov's classes. (English and Georgian summaries) **99j:30042**
Rehberg, J. *see* **Everitt, W. N.; et al., 99h:30036**
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Solov'ev, Yu. I. Cauchy formula and Cauchy-type integral for a class of generalized analytic functions. (Russian) **99f:30063a**
— Erratum: "Cauchy formula and Cauchy-type integral for a class of generalized analytic functions". (Russian) **99f:30063b**
Sorokin, A. S. Parametric representation of functions in finitely connected domains. (Russian. Russian summary) **99b:30060**
Stoilov, Petio Free interpolation of families of Cauchy-Stieltjes integrals and their multipliers. (English summary) **99j:30043**
Tsikh, A. K. *see* **Zhdanov, O. N., 99j:30044**
Tumanov, Alexander *see* **Aizenberg, Lev; et al., 99j:30040**
Tutschke, Wolfgang Another approach to complex integration. (English and Macedonian summaries) **99g:30052**
Vidras, Alekos *see* **Aizenberg, Lev; et al., 99j:30040**
Wang, Ming Hua Inversion formulas for integrals of Cauchy-Fredholm type. (Chinese. English and Chinese summaries)
Wang, Xiaolin (*with* Min, Honglin) The boundedness of singular integral operator along an open curve. (English summary) **99m:30080**
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Zhdanov, O. N. (*with* Tsikh, A. K.) Investigation of multiple Mellin-Barnes integrals by means of multidimensional residues. (Russian. Russian summary) **99j:30044**

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Avetisyan, K. L. On representations of some classes of functions that are subharmonic in the unit disk and in the half-plane. (Russian. English and Russian summaries) **99a:31001**
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Begehr, Heinrich G. W. (*with* Hile, G. N.) A hierarchy of integral operators. **99i:35013**
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Chung, Kwok-Chiu *see* **Evans, G. A., 99c:65043**
David, Guy Unrectifiable 1-sets have vanishing analytic capacity. (English and French summaries) **99i:42018**
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Evans, G. A. (*with* Chung, Kwok-Chiu) The evaluation of infinite range oscillatory integrals using optimal contours in the complex plane. (English summary) **99c:65043**
Gaier, Dieter Calculus on arcs in the complex plane. (English summary) **99m:30002**
Gallo, Angela The generalization of Sokhotski formulas on two complex variables. (English summary) **99c:32001**
Gordadze, E. Factorization of some measurable functions for the piecewise smooth curve. (English summary)
Hallenbeck, D. J. Tangential limits of Cauchy-Stieltjes transforms. (English summary) **99b:31001**
Hile, G. N. *see* **Begehr, Heinrich G. W., 99i:35013**
Kalia, R. N. Fractional calculus and analytic functions. (English summary) **99b:26009**
Karlovich, Yu. I. *see* **Böttcher, Albrecht, 99d:47022**
Lund, John-Peter (*with* Strichartz, Robert S.; Vinson, Jade P.) Cauchy transforms of self-similar measures. (English summary) **99k:28012**
Mattila, Pertti Singular integrals, analytic capacity and rectifiability. (English summary) **99e:42026**
Mironova, S. R. Singular integral equations on a countable set of closed nonrectifiable and fractal curves. (Russian) **99g:45003**
Nadir, M. Sur l'approximation des intégrales singulières. (French summary) [On the approximation of singular integrals] **99i:45021**
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Vinson, Jade P. *see* **Lund, John-Peter; et al., 99k:28012**
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Závada, Petr Operator of fractional derivative in the complex plane. (English summary) **99e:26007**
Zhong, Shou Guo Bertrand-Poincaré formulas for changing the order of integration in singular integrals of high order on an open arc. (Chinese. English and Chinese summaries) **99k:47125**

30E25 Boundary value problems [see also 45Exx]

Alekhno, A. G. On the solvability of the homogeneous Riemann boundary value problem with an infinite index. (Russian. English and Russian summaries) **99c:30068**
— The inhomogeneous Riemann boundary value problem with an infinite index in the case of multilateral vorticity. (Russian. English and Russian summaries) **99m:30081**
— On a Riemann boundary value problem with a coefficient that has an arbitrary finite oscillation of the argument. (Russian. English and Russian summaries) **99m:30082**
Alexandersson, Lars On holomorphic factorization and meromorphic selectors. (English summary) **99c:30069**
Aptsiauri, K. On the generalized Riemann-Hilbert-Poincaré problem in domains with piecewise smooth boundaries. (English and Georgian summaries) **99j:30045**
Arbuzov, È. V. (*with* Bukhgeĭm, A. L.) Carleman's formulas for A-analytic function in a half-plane. (English summary) **99i:30058**
Begehr, Heinrich G. W. Boundary value problems in $\mathbf{C}$ and $\mathbf{C}^n$. **99i:30059**
Bernstein, Swanhild Left-linear and nonlinear Riemann problems in Clifford analysis. (English summary) **99d:30041**
Bukhgeĭm, A. L. *see* **Arbuzov, È. V., 99i:30058**
Chen, Jin Yu Two remarks on a class of conjugate generalized Riemann boundary value problems. (Chinese. English and Chinese summaries)
Gordadze, E. On the boundary value problem of the linear conjugation for a piecewise smooth curve and for certain measurable coefficient. (English summary)
Khan, Mumtaz Ahmad (*with* Najmi, M.) On complex integrals of discrete functions. (English summary) **99e:30030**
Kutlu, K. On homogeneous Riemann boundary value problem. (English and Turkish summaries) **99c:30070**
Li, Ming Zhong (*with* Xu, Ding Hua) Non-E_2 class of strongly nonlinear generalised R-H boundary value problems for second-order elliptic system. (English summary) **99k:30070**
Li, Xing A class of periodic Riemann boundary value inverse problems. (English summary) (*see* **99g:00046**)
Mamulashvili, L. Generalized problem of Riemann on domains with piecewise-smooth boundary. (English and Georgian summaries) **99i:30060**
Mityushev, Vladimir Hilbert boundary value problem for multiply connected domains. (English summary) **99c:30071**
Najmi, M. *see* **Khan, Mumtaz Ahmad, 99e:30030**
Nasyrova, E. V. *see* **Salimov, R. B.; et al., 99i:30061**
Salimov, R. B. (*with* Nasyrova, E. V.; Shabalin, P. L.) Unique solvability of an inverse mixed boundary value problem. (Russian) **99i:30061**
Shabalin, P. L. *see* **Salimov, R. B.; et al., 99i:30061**
Shen, Nai Lu (*with* Wang, Zhen Ya) The Haseman problem on Riemann surfaces with $h = 1$. (Chinese. English and Chinese summaries) **99f:30064**
Wang, Chuan-Rong *see* **Yang, Qiao-Lin, 99h:30037**
Wang, Zhen Ya *see* **Shen, Nai Lu, 99f:30064**
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Xie, Su Ying Riemann-Hilbert boundary value problems with higher-order singularities. (Chinese. English and Chinese summaries)
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Yang, Qiao-Lin (*with* Wang, Chuan-Rong) Linear conjugate boundary value problems. (English summary) **99h:30037**

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Abreu Blaya, Ricardo (*with* Bory Reyes, Juan) Solvability of a Riemann linear conjugation problem on a fractal surface. **99m:30097**
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Aksent'ev, L. A. (*with* Kazantsev, A. V.; Popov, Nikolaĭ Ivanovich) Uniqueness theorems for an exterior inverse boundary value problem in subclasses of univalent functions. (Russian) **99m:30016**
Avkhadiev, F. G. ★ Конформные отображения и краевые задачи. (Russian. English and Russian summaries) [Conformal mappings and boundary value problems] **99m:30031**
Balser, W. (*with* Peyerimhoff, A.) A Laurent-type expansion for solutions of Stokes' equation in sectorial regions. (English and Russian summaries) **99b:35166**
Begehr, Heinrich G. W. Iterations of Pompeiu operators. (English and Georgian summaries) **99g:47115**
— *see also* **Akal, M., 99b:35047**
Bory Reyes, Juan *see* **Abreu Blaya, Ricardo, 99m:30097**
Câmara, M. C. (*with* dos Santos, A. F.) A nonlinear approach to generalized factorization of matrix functions. (English summary) **99g:47035**
Çelebi, A. Okay *see* **Sengül, Sare, 99j:35004**
Cherskiĭ, Yu. I. An integral equation of convolution type with an exponential in the kernel. (Russian. Russian summary) **99i:45006**
Degtyarenko, N. A. Solution of a convolution-type integral equation with four kernels and conjugation. (Russian. English and Russian summaries) **99i:45007**
Dubinskiĭ, Yu. A. (*with* Osipenko, A. S.) On the "orthogonal" decomposition of Sobolev spaces into a sum of analytic and coanalytic subspaces. (Russian) **99j:46035**
Dussaud, René Équations de Monge-Bairstow. (French summary) [Monge-Bairstow equations] (*see* **99e:00013**)
Dyn'kin, Evsey Cauchy integral decomposition for harmonic forms. (English summary) **99c:58003**
Dzhuraev, Abdukhamid Dzhuraevich On singular integral equations approach to generalized analytic functions. (English summary) **99i:30066**
Feldman, Israel[1] (*with* Markus, Alexander) On some properties of factorization indices. (English summary) **99f:47023**
Henrot, Antoine (*with* Philippin, Gérard A.) Some overdetermined boundary value problems with elliptical free boundaries. (English summary) **99b:35159**
Huang, Sha *see* **Qiao, Yuying; et al., 99b:35048**
Kähler, Uwe Clifford analysis and elliptic boundary value problems in unbounded domains. (English summary) **99e:30035**
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Krutitskiĭ, P. A. (*with* Logginova, K. A.) On a boundary value problem that describes the Hall effect in a semiconductor with a periodic system of electrodes. (Russian. Russian summary) **99c:78019**
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Lyalinov, M. A. Explicit solvability of a class of Maliuzhinets' equations with matrix coefficients. (English summary) **99b:39030**
Mamourian, Ahmad (*with* Shams, Bijan) On a non-uniformly elliptic boundary value problem. (English summary) **99c:35075**
Markus, Alexander *see* **Feldman, Israel[1], 99f:47023**
Mityushev, Vladimir Conformal mapping of the domain bounded by a circular polygon with zero angles onto the unit disc. (English summary) **99d:30010**
Moiseev, A. V. *see* **Latyshev, Anatoliĭ Vasil'evich, 99f:85001**
Obolashvili, E. Generalized holomorphic functions and Clifford analysis. (English and Georgian summaries) **99e:30037**
— Some partial differential equations in Clifford analysis. **99e:30038**
Osipenko, A. S. *see* **Dubinskiĭ, Yu. A., 99j:46035**
Peyerimhoff, A. *see* **Balser, W., 99b:35166**
Philippin, Gérard A. *see* **Henrot, Antoine, 99b:35159**
Popov, Nikolaĭ Ivanovich *see* **Aksent'ev, L. A.; et al., 99m:30016**
Prokhorovich, T. N. A Fuchsian system with four singular points and its application. (Russian. Russian summary) **99i:34008**
Qiao, Yuying (*with* Huang, Sha; Li, Shengxun) The Hilbert problem for the first order elliptic complex equation with discontinuous coefficients. (English and Chinese summaries) **99b:35048**
Renelt, Heinrich Smooth approximation of solutions of Cauchy-Riemann systems. (English summary) **99a:30027**
dos Santos, A. F. *see* **Câmara, M. C., 99g:47035**
Sengül, Sare (*with* Çelebi, A. Okay) On Riemann functions for complex differential equations. (English summary) **99j:35004**
Shams, Bijan *see* **Mamourian, Ahmad, 99c:35075**
Song, Jie (*with* Li, Ming Zhong) Nonlinear Riemann-Hilbert boundary value problems for a class of nth order systems. (Chinese. English and Chinese summaries)
Spitkovsky, Ilya M. *see* **Wegert, Elias; et al., 99g:47058**
Tutschke, Wolfgang ★ Inhomogeneous equations in complex analysis. **99h:35004**

— The contraction-mapping principle—some associated optimization problems. (*see* **99d:00020**)
Wegert, Elias (*with* Khimshiashvili, G. N.; Spitkovsky, Ilya M.) Nonlinear transmission problems. (English and Georgian summaries) **99g:47058**
Wen, Guo Chun (*with* Kang, Shixiang) Existence theorem and Riemann-Hilbert problem for general elliptic complex equations of third order. (English and Chinese summaries) **99a:35100**
Yang, Pi Wen Regular functions and Dirichlet boundary value problems in Clifford analysis. (Chinese. English and Chinese summaries) **99h:35039**

30E99 None of the above, but in this section

Items with secondary classifications in 30E99

Aleman, Alexandru (*with* Siskakis, Aristomenis G.) Integration operators on Bergman spaces. (English summary) **99b:47039**
Siskakis, Aristomenis G. *see* **Aleman, Alexandru**, **99b:47039**

30Fxx Riemann surfaces

Items with secondary classifications in 30Fxx

(Coray, Daniel) *see* **Danilov, Vladimir Ivanovich[1]**, **99g:14001**
Danilov, Vladimir Ivanovich[1] (*with* Shokurov, V. V.) ★ Algebraic curves, algebraic manifolds and schemes. **99g:14001**
(Shafarevich, Igor R.) *see* **Danilov, Vladimir Ivanovich[1]**, **99g:14001**
(Shokurov, V. N.) *see* **Danilov, Vladimir Ivanovich[1]**, **99g:14001**
Shokurov, V. V. *see* **Danilov, Vladimir Ivanovich[1]**, **99g:14001**

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Bujalance, Emilio (*with* Costa, Antonio F.; Izquierdo Barrios, Milagros) A note on isolated points in the branch locus of the moduli space of compact Riemann surfaces. (English summary) **99a:30038**
Buser, Peter (*with* Seppälä, Mika) Computing on Riemann surfaces. (English summary) **99k:30071**
Costa, Antonio F. *see* **Bujalance, Emilio; et al.**, **99a:30038**
Gouma, Tomomi Ahlfors functions on non-planar Riemann surfaces whose double are hyperelliptic. **99f:30065**
Hidalgo, Rubén A. On a theorem of Accola. (English summary) **99c:30073**
— Noded Fuchsian groups. I. (English summary) **99c:30074**
— γ-hyperelliptic Riemann surfaces. (English summary) **99h:30038**
— An example of degeneration on the noded Schottky space. (English summary) **99h:30039**
Izquierdo Barrios, Milagros *see* **Bujalance, Emilio; et al.**, **99a:30038**
Kawasaki, Masumi *see* **Kuribayashi, Akikazu; et al.**, **99d:30042**
Kimura, Hideyuki Representations of automorphism groups of compact Riemann surfaces. (Japanese) (*see* **99e:30001**)
Kuribayashi, Akikazu (*with* Nakajo, Naoyuki; Kawasaki, Masumi) On the zero-maps and automorphism groups of a compact Riemann surface. **99d:30042**
Labbé Morales, Gustavo Riemann surface with cyclic automorphisms group. (English summary) **99g:30053**
Nakajo, Naoyuki *see* **Kuribayashi, Akikazu; et al.**, **99d:30042**
Natanzon, Sergei The topological structure of the space of holomorphic morphisms of Riemann surfaces. (Russian) **99k:30072**
Seppälä, Mika *see* **Buser, Peter**, **99k:30071**
Tanabe, Masaharu A bound for the theorem of de Franchis. (English summary) **99j:30046**
Yang, Qingjie Dihedral groups of automorphisms of compact Riemann surfaces. (English summary) **99m:30083**

Items with secondary classifications in 30F10

Biswas, Indranil (*with* Nag, Subhashis) Commensurability automorphism groups and infinite constructions in Teichmüller theory. (English and French summaries) **99i:32026**
Brooks, Robert Wolfe Platonic surfaces. (English summary) **99k:58185**
Broughton, S. A. (*with* Bujalance, Emilio; Costa, Antonio F.; Gamboa, J. M.; Gromadzki, G.) Symmetries of Accola-Maclachlan and Kulkarni surfaces. (English summary) **99f:14036**
Bujalance, Emilio *see* **Broughton, S. A.; et al.**, **99f:14036**
Costa, Antonio F. *see* **Broughton, S. A.; et al.**, **99f:14036**
Fuertes, Yolanda (*with* González-Diez, Gabino) On the Lefschetz number of quasiconformal self-mappings of compact Riemann surfaces. **99b:32028**
Gamboa, J. M. *see* **Broughton, S. A.; et al.**, **99f:14036**
Gianni, Patrizia (*with* Seppälä, Mika; Silhol, Robert; Trager, Barry) Riemann surfaces, plane algebraic curves and their period matrices. (English summary) **99m:14055**
Ginzburg, David (*with* Rudnick, Zeév) Stable multiplicities in the length spectrum of Riemann surfaces. (English summary) **99g:58125**
Gómez-Mont, Xavier Integration of algebraic functions and the Riemann-Kempf singularity theorem. **99f:14037**
González-Diez, Gabino *see* **Fuertes, Yolanda**, **99b:32028**
Gromadzki, G. *see* **Broughton, S. A.; et al.**, **99f:14036**
Hashimoto, Yoshitake (*with* Ohba, Kiyoshi) The moduli space of once punctured elliptic curves with Lagrangian sublattices. **99k:14043**
Ivanov, N. V. (*with* McCarthy, John D.) On injective homomorphisms between Teichmüller modular groups. I. (English summary) **99m:57014**
Jakóbczak, Piotr Hilbert's Twenty-Second Problem. (Polish. English summary) **99m:01025**
Jones, Gareth A. Characters and surfaces: a survey. (English summary) **99j:20056**
Klyachko, Aleksandr Anatol'evich (*with* Kurtaran, E.) Some identities and asymptotics for characters of the symmetric group. **99h:14033**
Kostov, Ivan K. (*with* Staudacher, Matthias; Wynter, Thomas) Complex matrix models and statistics of branched coverings of 2D surfaces. (English summary) **99h:81193**
Kurkova, I. A. (*with* Malyshev, V. A.) Martin boundary and elliptic curves. (English summary) **99h:60149**
Kurtaran, E. *see* **Klyachko, Aleksandr Anatol'evich**, **99h:14033**
Malyshev, V. A. *see* **Kurkova, I. A.**, **99h:60149**
Maskit, Bernard Remarks on m-symmetric Riemann surfaces. (English summary) **99b:30061**
Matsuzaki, Katsuhiko (*with* Taniguchi, Masahiko) ★ Hyperbolic manifolds and Kleinian groups. **99g:30055**
McCarthy, John D. *see* **Ivanov, N. V.**, **99m:57014**
Mityushev, Vladimir On the construction of abelian differentials on closed Riemannian surface. **99j:30048**
Nag, Subhashis *see* **Biswas, Indranil**, **99i:32026**
Ohba, Kiyoshi *see* **Hashimoto, Yoshitake**, **99k:14043**
Rudnick, Zeév *see* **Ginzburg, David**, **99g:58125**
Seppälä, Mika *see* **Gianni, Patrizia; et al.**, **99m:14055**
Silhol, Robert *see* **Gianni, Patrizia; et al.**, **99m:14055**
Singerman, David (*with* Watson, Paul) Non-maximal cyclic group actions on compact Riemann surfaces. (English summary) **99a:20050**
Staudacher, Matthias *see* **Kostov, Ivan K.; et al.**, **99h:81193**
Taniguchi, Masahiko *see* **Matsuzaki, Katsuhiko**, **99g:30055**
Trager, Barry *see* **Gianni, Patrizia; et al.**, **99m:14055**
Turbek, Peter Sufficient conditions for a group of automorphisms of a Riemann surface to be its full automorphism group. (English summary) **99c:14045**
Vinnikov, Victor Commuting operators and function theory on a Riemann surface. (English summary) **99e:47018**
Watson, Paul *see* **Singerman, David**, **99a:20050**
Wolfart, Jürgen The "obvious" part of Belyi's theorem and Riemann surfaces with many automorphisms. **99a:14036**
Wynter, Thomas *see* **Kostov, Ivan K.; et al.**, **99h:81193**
Zindinova, N. S. Uniformization of some Riemann surfaces with nodes. (Russian. Russian summary) **99h:30042**

30F15 Harmonic functions on Riemann surfaces

Bârză, Ilie (*with* Ghişa, D.) Boundary value problems on nonorientable surfaces. (English summary) **99j:30047**
Damlakhi, Moustafa Minimal harmonic representation in a parabolic Riemann surface. (English summary) **99m:30084**
Ghişa, D. *see* **Bârză, Ilie**, **99j:30047**
Masaoka, Hiroaki *see* **Segawa, Shigeo**, (**99i:00018**)
Segawa, Shigeo (*with* Masaoka, Hiroaki) Positive harmonic functions on unbounded covering surfaces. (Japanese) (*see* **99i:00018**)

30F20 Classification theory of Riemann surfaces

Hayashi, Mikihiro Riemann surfaces that have bounded nonconstant meromorphic functions at infinity. (Japanese) (*see* **99i:00018**)

Items with secondary classifications in 30F20

Holopainen, Ilkka (*with* Soardi, Paolo M.) p-harmonic functions on graphs and manifolds. (English summary) **99c:31017**
Soardi, Paolo M. *see* **Holopainen, Ilkka**, **99c:31017**

30F25 Ideal boundary theory

Gordadze, E. Factorization of some measurable functions for the piecewise smooth curve. (English summary)
Masaoka, Hiroaki (*with* Segawa, Shigeo) Harmonic dimension of covering surfaces and minimal fine neighborhood. **99g:30054**
Segawa, Shigeo *see* **Masaoka, Hiroaki**, **99g:30054**

Items with secondary classifications in 30F25

Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundaries of finite sheet unbounded covering surfaces. (Japanese) (*see* **99a:00036**)
Masaoka, Hiroaki *see* **Jin, Naondo; et al.**, (**99a:00036**)
Nakai, Mitsuru Quasiisometric mappings and the variational capacity. **99e:30013**
Schmieder, Gerald (*with* Shiba, Masakazu) One-parameter variations of the ideal boundary and compact continuations of a Riemann surface. (English summary) **99k:30073**
Segawa, Shigeo *see* **Jin, Naondo; et al.**, (**99a:00036**)
Shiba, Masakazu *see* **Schmieder, Gerald**, **99k:30073**

30F30 Differentials on Riemann surfaces

Bennama, H. Base de différentielles de première espèce des courbes $y^q = \prod_{i=0}^{p}(x - a_i)^{\alpha_i}$: application aux points de Weierstrass. (English and French summaries) [Base of differentials of the first kind for the curves $y^q = \prod_{i=0}^{p}(x - a_i)^{\alpha_i}$: application to Weierstrass points] **99c:30075**
Hashimoto, Yoshitake *see* **Ohba, Kiyoshi**, (**99j:58003**)
Mityushev, Vladimir On the construction of abelian differentials on closed Riemannian surface. **99j:30048**
Muciño-Raymundo, Jesús Integration, Euclidean geometry and meromorphic vector fields. (Spanish. Spanish summary) **99j:30049**
Ohba, Kiyoshi (*with* Hashimoto, Yoshitake) Abelian differentials and polygons of Riemannian surfaces. (Japanese) (*see* **99j:58003**)
Schmieder, Gerald (*with* Shiba, Masakazu) One-parameter variations of the ideal boundary and compact continuations of a Riemann surface. (English summary) **99k:30073**

Shiba, Masakazu *see* **Schmieder, Gerald**, **99k:30073**
Smolander, Pekka Numerical approximation of bicanonical embedding. **99m:30085**

Items with secondary classifications in 30F30

Gianni, Patrizia (*with* Seppälä, Mika; Silhol, Robert; Trager, Barry) Riemann surfaces, plane algebraic curves and their period matrices. (English summary) **99m:14055**
Hashimoto, Yoshitake (*with* Ohba, Kiyoshi) Construction of Riemann surfaces by parallel transformations. **99h:14035**
— (*with* Ohba, Kiyoshi) The moduli space of once punctured elliptic curves with Lagrangian sublattices. **99k:14043**
Lee, Man Keun A basis of the space of meromorphic differentials on Riemann surfaces. (English summary) **99m:14060**
Ohba, Kiyoshi *see* **Hashimoto, Yoshitake**, **99h:14035** *and* **99k:14043**
Seppälä, Mika *see* **Gianni, Patrizia; et al.**, **99m:14055**
Silhol, Robert *see* **Gianni, Patrizia; et al.**, **99m:14055**
Trager, Barry *see* **Gianni, Patrizia; et al.**, **99m:14055**
Weber, Matthias[2] (*with* Wolf, Michael[1]) Minimal surfaces of least total curvature and moduli spaces of plane polygonal arcs. **99m:53020**
Wolf, Michael[1] *see* **Weber, Matthias**[2], **99m:53020**
Yamada, Akira Positive differentials, theta functions and Hardy H^2 kernels. (English summary) **99h:30009**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

Items with secondary classifications in 30F35

Balke, Ludwig (*with* Kaess, Alexandra; Neuschäfer, Uta; Rothenhäusler, Frank; Scheidt, Stefan) Polyhedral fundamental domains for discrete subgroups of PSL(2, **R**). (English summary) **99j:22017**
Belolipetskiĭ, M. V. Estimates for the number of automorphisms of a Riemann surface. (Russian. Russian summary) **99c:14044**
Broughton, S. A. (*with* Bujalance, Emilio; Costa, Antonio F.; Gamboa, J. M.; Gromadzki, G.) Symmetries of Accola-Maclachlan and Kulkarni surfaces. (English summary) **99f:14036**
Bujalance, Emilio (*with* Costa, Antonio F.; Izquierdo Barrios, Milagros) A note on isolated points in the branch locus of the moduli space of compact Riemann surfaces. (English summary) **99a:30038**
— *see also* **Broughton, S. A.; et al.**, **99f:14036**
Buser, Peter (*with* Seppälä, Mika) Computing on Riemann surfaces. (English summary) **99k:30071**
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"Rigidity and inflexibility in conformal analysis" Editor's remark. Correction: "Rigidity and inflexibility in conformal dynamics" [Doc. Math. **1998**, Extra Vol. II, 841–855 (electronic); MR 99h:58159a] by C. T. McMullen. **99h:58159b**

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— Generalized analytic functions in differential geometry. **99k:53004**
Vasilevskiĭ, N. L. (*with* Shapiro, M. V.) On the Bergman kernel function in quaternion analysis. (Russian) **99g:35022**

30G25 Discrete analytic functions

Items with secondary classifications in 30G25

McCaughan, Gareth A recurrence/transience result for circle packings. (English summary) **99b:52041**
Ryan, John The Fourier transform on the sphere. (English summary) **99h:42012**
Stephenson, Kenneth A probabilistic proof of Thurston's conjecture on circle packings. (English summary) **99m:52024**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Huang, Sha Poincaré-Bertrand transformation formulae for singular integrals in Clifford analysis. (Chinese. English and Chinese summaries) **99c:30076**
Mazet, Pierre Principe du maximum et lemme de Schwarz à valeurs vectorielles. (French summary) [Maximum principle and vector-valued Schwarz lemma] **99b:30063**
Wang, Huan Xu Superanalytic functions in the tri-dimensional supercomplex system. (Chinese. English and Chinese summaries)

Items with secondary classifications in 30G30

Boutabaa, Abdelbaki (*with* Escassut, Alain) On uniqueness of p-adic meromorphic functions. (English summary) **99a:46136**
Escassut, Alain *see* **Boutabaa, Abdelbaki, 99a:46136**

30G35 Functions of hypercomplex variables and generalized variables

Abreu Blaya, Ricardo (*with* Bory Reyes, Juan) Solvability of a Riemann linear conjugation problem on a fractal surface. **99m:30097**
Abul-Ez, M. A. Exponential base of special monogenic polynomials. (English summary) **99e:30032**
Bernstein, Swanhild A Paley-Wiener theorem and Wiener-Hopf-type integral equations in Clifford analysis. (English summary) **99j:30052**
Bory Reyes, Juan *see* **Abreu Blaya, Ricardo, 99m:30097**
Cho, Eung Chun De Moivre's formula for quaternions. (English summary)
— Euler's formula and De Moivre's formula for quaternions. (English summary)
Eriksson-Bique, Sirkka-Liisa (*with* Leutwiler, Heinz) On modified quaternionic analysis in $\mathbf{R}^3$. (English summary) **99d:30044**
Fjelstad, Paul (*with* Gal, Sorin G.) n-dimensional hyperbolic complex numbers. (English summary) **99i:30067**
Franks, Edwin (*with* Ryan, John) Bounded monogenic functions on unbounded domains. (English summary) **99a:30043**
Gal, Sorin G. *see* **Fjelstad, Paul, 99i:30067**
Golubeva, V. A. (*with* Pokazeev, V. V.) Clifford analysis and its applications. I. Representations of Laplace operators. Regularity criteria. Integral representations of Cauchy-Green type. **99k:30076**
Grigoryan, Shushanik Akopovna The divisor of a generalized analytic function. (Russian. Russian summary) **99e:30033**
Gürlebeck, Klaus On some operators in Clifford analysis. (English summary) **99a:30044**
Hempfling, Thomas (*with* Leutwiler, Heinz) Modified quaternionic analysis in $\mathbf{R}^4$. **99e:30034**
Huang, Sha A (linear) nonlinear boundary value problem for generalized biregular functions in Clifford analysis. (Chinese. English and Chinese summaries) **99f:30070**
— Quasi-permutations and generalized regular functions in real Clifford analysis. (Chinese. English and Chinese summaries)
Kähler, Uwe Clifford analysis and elliptic boundary value problems in unbounded domains. (English summary) **99e:30035**
Kisil, Vladimir V. How many essentially different function theories exist? (English summary) **99g:30057**
Laville, Guy (*with* Ramadanov, Ivan-Pierre) Fonctions holomorphes cliffordiennes. (English and French summaries) [Cliffordian holomorphic functions] **99m:30098**
Leutwiler, Heinz *see* **Eriksson-Bique, Sirkka-Liisa, 99d:30044** *and* **Hempfling, Thomas, 99e:30034**
Lugojan, Sorin About the symmetry of the quaternionic derivatives. (English summary)
— Quaternionic derivability. II. (English summary) (*see* **99d:53002**)
Malonek, Helmuth R. Generalizing the (F, G)-derivative in the sense of Bers. (English summary) **99d:30045**
Marinov, Marin Stefanov Octonionic differentiable functions. **99d:30046**
— On the quaternionic differentiable maps. **99e:30036**
Martin, Mircea Higher-dimensional Ahlfors-Beurling type inequalities in Clifford analysis. (English summary) **99a:30045**
Motter, A. E. (*with* Rosa, M. A. F.) Hyperbolic calculus. (English summary) **99m:30099**
Obolashvili, E. Generalized holomorphic functions and Clifford analysis. (English and Georgian summaries) **99e:30037**
— Some partial differential equations in Clifford analysis. **99e:30038**
Pernas, Louis About some operators in quaternionic analysis. (English summary) **99k:30077**
Pokazeev, V. V. *see* **Golubeva, V. A., 99k:30076**
Qian, Tao Generalization of Fueter's result to $\mathbf{R}^{n+1}$. (English and Italian summaries) **99d:30047**
Ramadanov, Ivan-Pierre *see* **Laville, Guy, 99m:30098**
Rosa, M. A. F. *see* **Motter, A. E., 99m:30099**
Ryan, John A decomposition theorem in Clifford analysis. (English summary) **99f:30071**
— *see also* **Franks, Edwin, 99a:30043**
Sabadini, Irene (*with* Struppa, Daniele C.) Some open problems on the analysis of the Cauchy-Fueter system in several variables. **99e:30039**

Sasayama, Hiroyoshi Generalized Cauchy-Riemann equations and power series in non-commutative hypercomplex n-tuple spaces. (English summary) **99k:30078**
Scheicher, Klaus (*with* Tichy, Robert F.; Tomantschger, K. W.) Elementary inequalities in hypercomplex numbers. (English summary) **99j:30053**
Shapiro, M. V. On the conjugate harmonic functions of M. Riesz–E. Stein–G. Weiss. (English summary) **99e:30040**
— (*with* Tovar, Luis Manuel) On a class of integral representations related to the two-dimensional Helmholtz operator. (English summary) **99b:30064**
Sommen, Franciscus (*with* Van Lancker, P.) A product for special classes of monogenic functions and tensors. (English summary) **99b:30065**
— Curved Radon transforms in Clifford analysis. (English summary) **99d:30048**
Struppa, Daniele C. *see* **Sabadini, Irene**, **99e:30039**
Tichy, Robert F. *see* **Scheicher, Klaus; et al.**, **99j:30053**
Tomantschger, K. W. *see* **Scheicher, Klaus; et al.**, **99j:30053**
Tovar, Luis Manuel *see* **Shapiro, M. V.**, **99b:30064**
Van Lancker, P. Clifford analysis on the sphere. (English summary) **99i:30068**
— *see also* **Sommen, Franciscus**, **99b:30065**
Vaz, Jayme, Jr. Clifford-like calculus over lattices. (English summary) **99c:30077**
Wada, Masaaki Generalization of the Schwarz differential through Clifford numbers. (Japanese) (*see* **99e:30001**)
— A generalization of the Schwarzian via Clifford numbers. (English summary) **99k:30079**

Items with secondary classifications in 30G35

Bernstein, Swanhild Left-linear and nonlinear Riemann problems in Clifford analysis. (English summary) **99d:30041**
— On the index of Clifford algebra valued singular integral operators and the left linear Riemann problem. (English summary) **99a:47073**
Cerejeiras, P. Decomposition of analytic hyperbolically harmonic functions. (English summary) **99m:30090**
Colombo, Fabrizio (*with* Loustaunau, Philippe; Sabadini, Irene; Struppa, Daniele C.) Regular functions of biquaternionic variables and Maxwell's equations. (English summary) **99g:32021**
Gomatam, Jagannathan (*with* McFarlane, Isobel) Generalisation of the Mandelbrot set to integral functions of quaternions. (English summary) **99k:30041**
Gu, Ying-Qiu A canonical form for relativistic dynamic equation. (English summary) **99g:15037**
Gürlebeck, Klaus On some applications of the biharmonic equation. (English summary) **99e:35045**
Huang, Sha Poincaré-Bertrand transformation formulae for singular integrals in Clifford analysis. (Chinese. English and Chinese summaries) **99c:30076**
Jaroszewski, I. (*with* Kwaśniewski, A. K.) On a dynamics of the Möbius mapping and Clifford numbers. (English summary) **99c:39024**
Jefferies, Brian (*with* McIntosh, Alan G. R.) The Weyl calculus and Clifford analysis. (English summary) **99e:47022**
Kassandrov, Vladimir V. Conformal mappings, hyperanalyticity and field dynamics. (English summary) **99b:30006**
Kwaśniewski, A. K. *see* **Jaroszewski, I.**, **99c:39024**
Ławrynowicz, Julian (*with* Suzuki, Osamu) Hurwitz duality theorems for Fueter and Dirac equations. (English summary) **99g:15038**
— Type-changing transformations of pseudo-Euclidean Hurwitz pairs, Clifford analysis, and particle lifetimes. (English summary) **99h:15029**
Li, Chun[2] (*with* Wu, Zhi Jian[1]) Hankel operators on Clifford valued Bergman space. (English summary) **99a:47038**
Loustaunau, Philippe *see* **Colombo, Fabrizio; et al.**, **99g:32021**
McFarlane, Isobel *see* **Gomatam, Jagannathan**, **99k:30041**
McIntosh, Alan G. R. *see* **Jefferies, Brian**, **99e:47022**
Mitrea, Irina (*with* Mitrea, Marius) Monogenic Hardy spaces on Lipschitz domains and compensated compactness. (English summary) **99a:42015**
Mitrea, Marius *see* **Mitrea, Irina**, **99a:42015**
Sabadini, Irene *see* **Colombo, Fabrizio; et al.**, **99g:32021**
Struppa, Daniele C. *see* **Colombo, Fabrizio; et al.**, **99g:32021**
Suzuki, Osamu *see* **Ławrynowicz, Julian**, **99g:15038**
Tutschke, Wolfgang ★ Inhomogeneous equations in complex analysis. **99h:35004**
Wu, Zhi Jian[1] *see* **Li, Chun[2]**, **99a:47038**
Yang, Pi Wen Regular functions and Dirichlet boundary value problems in Clifford analysis. (Chinese. English and Chinese summaries) **99h:35039**

30G99 None of the above, but in this section

Tutschke, Wolfgang Generalized analytic functions in mathematical analysis. **99i:30069**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Hedenmalm, Håkan Recent developments in the function theory of the Bergman space. (English summary) **99i:30070**
Iida, Yasuo (*with* Mochizuki, Nozomu) Isometries of some F-algebras of holomorphic functions. (English summary) **99h:30050**
Khavinson, Dmitry (*with* Stessin, Michael) Certain linear extremal problems in Bergman spaces of analytic functions. **99k:30080**
Korobeĭnik, Yu. F. On the surjectivity of a convolution operator in spaces of analytic functions. (Russian. Russian summary) **99f:30072**
Mochizuki, Nozomu *see* **Iida, Yasuo**, **99h:30050**
Stessin, Michael *see* **Khavinson, Dmitry**, **99k:30080**
Vagarshakyan, A. A. Weighted Dirichlet classes. **99h:30051**

Items with secondary classifications in 30H05

Andersson, Mats Erik Integral means on radially weighted spaces of analytic functions. (English summary) **99j:46031**
Cartan, Henri Théorie spectrale des C-algèbres commutatives (d'après L. Waelbroeck). [Spectral theory of commutative C-algebras (after L. Waelbroeck)] (*see* **99f:00035**)
Daoud, Suzanne On the space of analytic functions represented by the series $\sum a_n \exp -\langle \lambda_n, \Psi(x) \rangle$. (English and Arabic summaries) **99d:46033**
Dragilev, M. M. On isomorphic representation for the pairs of embedded spaces of analytic functions. **99e:46030**
Dyakonov, Konstantin M. Embedding theorems for star-invariant subspaces generated by smooth inner functions. (English summary) **99k:46034**
Fisher, Stephen D. (*with* Shapiro, Jonathan E.) The essential norm of a composition operator on a planar domain. (English summary) **99k:47065**
Gorkin, Pamela (*with* Zheng, De Chao) Harmonic extensions and the Böttcher-Silbermann conjecture. (English summary) **99b:46075**
Hedenmalm, Håkan (*with* Lindqvist, Peter; Seip, Kristian) A Hilbert space of Dirichlet series and systems of dilated functions in $L^2(0,1)$. **99i:42033**
— Recent progress in the function theory of the Bergman space. (English summary) **99e:46035**
Hornor, William E. (*with* Jamison, James E.) Isometrically equivalent composition operators. (English summary) **99b:47041**
Israfilov, D. M. Approximation by generalized Faber series in weighted Bergman spaces on finite regions with quasiconformal boundary. (English, Russian and Azerbaijani summaries) **99j:30039**
Jamison, James E. *see* **Hornor, William E.**, **99b:47041**
Jevtić, Miroljub (*with* Pavlović, Miroslav) Coefficient multipliers on spaces of analytic functions. (English summary) **99m:46067**
Kriete, Thomas L., III Kernel functions and composition operators in weighted Bergman spaces. (English summary) **99a:47047**
Kumar, Arvind (*with* Srivastava, G. S.) Spaces of functions analytic in a half plane. (English summary) **99d:46036**
Lindqvist, Peter *see* **Hedenmalm, Håkan; et al.**, **99i:42033**
Lotto, Benjamin A. (*with* Sarason, Donald) Multipliers of de Branges-Rovnyak spaces. II. **99c:46022**
Meštrović, Romeo Ideals in some rings of Nevanlinna-Smirnov type. (English summary) **99h:46100**
— (*with* Pavićević, Žarko) The logarithmic analogue of Szegő's theorem. (English summary) **99f:46033**
Mikityuk, Ya. V. *see* **Nagnibīda, N. Ī.**, **99m:47037**
Mortini, Raymond A constructive proof of the Beurling-Rudin theorem. (English summary) **99c:46060**
Nagnibīda, N. Ī. Integral operators in spaces of functions analytic in the disk. (Ukrainian) **99c:47075**
— (*with* Mikityuk, Ya. V.) On the equivalence of some Pommiez operators in spaces of analytic functions. (Ukrainian. English and Russian summaries) **99m:47037**
Narita, Junichiro Separation and weak separation on Riemann surfaces. (English summary) **99j:46060**
Nicolau, Artur (*with* Xiao, Jie[1]) Bounded functions in Möbius invariant Dirichlet spaces. (English summary) **99b:46028**
Nowak, Maria Coefficient multipliers of spaces of analytic functions. (English summary) **99m:46068**
Pavićević, Žarko *see* **Meštrović, Romeo**, **99f:46033**
Pavlović, Miroslav *see* **Jevtić, Miroljub**, **99m:46067**
Render, Hermann The maximal ideal space of $H^\infty(\mathbf{D})$ with respect to the Hadamard product. (English summary) **99h:46101**
Robbins, Marian E. Composition operators between Bergman spaces. (English summary) **99a:47048**
Sarason, Donald Harmonically weighted Dirichlet spaces associated with finitely atomic measures. (English summary) **99i:46015**
— *see also* **Lotto, Benjamin A.**, **99c:46022**
Schuster, Alexander P. (*with* Seip, Kristian) A Carleson-type condition for interpolation in Bergman spaces. (English summary) **99f:46034**
Seip, Kristian *see* **Schuster, Alexander P.**, **99f:46034** *and* **Hedenmalm, Håkan; et al.**, **99i:42033**
Shapiro, Jonathan E. *see* **Fisher, Stephen D.**, **99k:47065**
Srivastava, G. S. *see* **Kumar, Arvind**, **99d:46036**
Tan, Hai Ou (*with* Xiao, Jie[1]) Two applications of generalized Carleson measures to meromorphic Besov-type spaces. (English summary) **99m:46087**
— (*with* Xiao, Jie[1]) Two applications of generalized Carleson measures on meromorphic Besov type spaces. (Chinese. Chinese summary)
— *see also* **Xiao, Jie[1]**, **99g:46021**
Xiao, Jie[1] (*with* Tan, Hai Ou) p-Bergman spaces, α-Bloch spaces, little α-Bloch spaces, and Cesàro means. (Chinese. Chinese summary) **99g:46021**
— The $\overline{\partial}$-problem for multipliers of the Sobolev space. (English summary) **99g:46047**
— Extension of a theorem of Zygmund. (English summary) **99e:30025**
— *see also* **Nicolau, Artur**, **99b:46028**; **Tan, Hai Ou**, **99m:46087**
Yi, Heungsu Poisson integrals contained in harmonic Bergman spaces on upper half-space. (English summary) **99g:31009**
Zheng, De Chao *see* **Gorkin, Pamela**, **99b:46075**

31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–02 Research exposition (monographs, survey articles)

(Bloom, Thomas) *see* **Saff, Edward B., 99h:31001**

Gardiner, Stephen J. Harmonic approximation and boundary behaviour. (English summary) **99e:31001**

Saff, Edward B. (*with* Totik, Vilmos) ★ Logarithmic potentials with external fields. **99h:31001**

Totik, Vilmos *see* **Saff, Edward B., 99h:31001**

Items with secondary classifications in 31–02

Gustafsson, Björn Direct and inverse balayage—some new developments in classical potential theory. **99e:31011**

31–06 Proceedings, conferences, collections, etc.

Jost, Jürgen (*with* Kendall, Wilfrid S.; Mosco, Umberto; Röckner, Michael; Sturm, Karl-Theodor) ★ New directions in Dirichlet forms. **99e:31002**

Kendall, Wilfrid S. *see* **Jost, Jürgen; et al., 99e:31002**

Mosco, Umberto *see* **Jost, Jürgen; et al., 99e:31002**

Röckner, Michael *see* **Jost, Jürgen; et al., 99e:31002**

Sturm, Karl-Theodor *see* **Jost, Jürgen; et al., 99e:31002**

Items with secondary classifications in 31–06

Items listed otherwise than by author

Potential theory and related fields ★ Potensharu ron to sono kanren bunya. (Japanese) [Potential theory and related fields] **99a:00036**

Symposium:

Potential Theory and Related Fields ★ Potensharu ron to sono kanren bunya. (Japanese) [Potential theory and related fields] **99a:00036**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Aikawa, Hiroaki Generalized Cranston-McConnell inequalities for discontinuous superharmonic functions. (English summary) **99g:31001**

Avetisyan, K. L. On representations of some classes of functions that are subharmonic in the unit disk and in the half-plane. (Russian. English and Russian summaries) **99a:31001**

— Letter to the editors: "On representations of some classes of functions that are subharmonic in the unit disk and in the half-plane" [Izv. Nats. Akad. Nauk Armenii **29** (1994), no. 1, 3–15 (1996); MR 99a:31001]. (Russian)

Balikov, G. I. (*with* Dimitrov, I. P.) Some non-metrizable spaces of harmonic functions. (English summary) **99j:31001**

Barry, P. D. On upper linear density in the $\cos \pi\rho$ theorem. **99f:31001**

Bhattacharya, Tilak (*with* Weitsman, Allen) Estimates for Green's function in terms of asymmetry. (English summary) **99j:31002**

Dimitrov, I. P. *see* **Balikov, G. I., 99j:31001**

Fryntov, A. E. (*with* Rossi, John; Weitsman, Allen) Circular means of fine Green's functions and the longest arc relation. (English summary) **99m:31001**

Grigor'ev, Yu. A. Some inequalities for gradients of harmonic functions. (Russian. English and Ukrainian summaries) **99c:31001**

Logvinenko, Vladimir (*with* Nazarova, Natalya) Criteria of boundedness from above of subharmonic functions of finite order in an angle. (English summary) **99m:31002**

Nazarova, Natalya *see* **Logvinenko, Vladimir, 99m:31002**

Pruss, Alexander R. Steiner symmetry, horizontal convexity, and some Dirichlet problems. (English summary) **99c:31002**

Rossi, John *see* **Fryntov, A. E.; et al., 99m:31001**

Saakyan, R. Sh. The maximum principle for subharmonic functions. (Russian) **99h:31002**

Sarana, O. A. *see* **Tamrazov, Promarz, 99c:31003**

Schwartz, M.-H. Compte-rendu de travaux de M. Heins sur diverses majorations de la croissance des fonctions analytiques ou sous-harmoniques. [The results of M. Heins concerning upper bounds on the growth of analytic or subharmonic functions] (*see* **99f:00033**)

Sodin, Mikhail Hahn decomposition for the Riesz charge of δ-subharmonic functions. **99m:31003**

Tamrazov, Promarz Eremenko's extremal problem on harmonic functions. (English and Polish summaries) **99g:31002**

— (*with* Sarana, O. A.) Contour-solid properties of finely hypoharmonic functions. (Russian. English and Ukrainian summaries) **99c:31003**

— Eremenko's extremal problem on harmonic functions. (English summary) **99e:31003**

Weitsman, Allen On the Fourier coefficients of homeomorphisms of the circle. **99h:31003**

— A counterexample to uniqueness in the Riemann mapping theorem for univalent harmonic mappings. (English summary) **99k:31001**

— *see also* **Bhattacharya, Tilak, 99j:31002** *and* **Fryntov, A. E.; et al., 99m:31001**

Items with secondary classifications in 31A05

Akeroyd, John Harmonic measures on complementary subregions of the disk. (English summary) **99f:31002**

Beretta, Elena (*with* Vessella, Sergio) Stable determination of boundaries from Cauchy data. (English summary) **99j:35229**

Berrone, Lucio R. On a conjecture relative to the maximum of harmonic functions on convex domains: unbounded domains. (English summary) **99h:31007**

Bshouty, Daoud (*with* Hengartner, Walter) Boundary values versus dilatations of harmonic mappings. (English summary) **99c:30061**

Cheng, Jin² (*with* Yamamoto, Masahiro) Unique continuation on a line for harmonic functions. (English summary) **99d:35029**

Danikas, N. (*with* Hayman, W. K.) Domination on sets and in H^p. (English summary) **99f:30054**

Driscoll, Tobin A. *see* **Trefethen, Lloyd N., 99i:30012**

Dzhrbashyan, A. M. An extension of the factorization theory of M. M. Dzhrbashyan. (Russian. English and Russian summaries) **99k:30048**

Gustafsson, Björn (*with* Sakai, Makoto; Shapiro, Harold S.) On domains in which harmonic functions satisfy generalized mean value properties. (English summary) **99b:31002**

Hayman, W. K. *see* **Danikas, N., 99f:30054**

Hengartner, Walter *see* **Bshouty, Daoud, 99c:30061**

Krutitskiĭ, P. A. The 2-dimensional Dirichlet problem in an external domain with cuts. (English summary) **99f:35036**

Krzyż, J. G. (*with* Partyka, Dariusz) Harmonic extensions of quasisymmetric mappings. (English summary) **99a:30022**

Lai, Xue Jian *see* **Liu, Jia Kun, 99b:31003**

Liu, Jia Kun (*with* Lai, Xue Jian) The converse of the mean value theorem for harmonic functions and harmonic measures. (Chinese. English and Chinese summaries) **99b:31003**

Livingston, Albert E. Univalent harmonic mappings. II. (English summary) **99e:30010**

Lyzzaik, Abdallah A note on the valency of harmonic maps. (English summary) **99k:30029**

Mattila, Pertti Rectifiability, analytic capacity, and singular integrals. (English summary) **99g:28010**

Partyka, Dariusz *see* **Krzyż, J. G., 99a:30022**

Pavićević, Žarko (*with* Šušić, Jela) Boundary behavior of subharmonic functions on the unit disk. (English summary) **99m:31005**

Sakai, Makoto *see* **Gustafsson, Björn; et al., 99b:31002**

Shapiro, Harold S. *see* **Gustafsson, Björn; et al., 99b:31002**

Silverman, Herb Harmonic univalent functions with negative coefficients. (English summary) **99c:30037**

Šušić, Jela *see* **Pavićević, Žarko, 99m:31005**

Trefethen, Lloyd N. (*with* Driscoll, Tobin A.) Schwarz-Christoffel mapping in the computer era. (English summary) **99i:30012**

Vessella, Sergio *see* **Beretta, Elena, 99j:35229**

Voss, Jürgen J. Interpolation formulas for harmonic functions. (English summary) **99m:41007**

Yamamoto, Masahiro *see* **Cheng, Jin², 99d:35029**

31A10 Integral representations, integral operators, integral equations methods

Avetisyan, K. L. Green-type potentials and the representability of weighted classes of subharmonic functions. (Russian. English and Russian summaries) **99h:31004**

Maz'ya, Vladimir G. (*with* Solov'ëv, Aleksandr Artëmovich) L_p-theory of boundary integral equations on a contour with outward peak. (English summary) **99i:31001**

— (*with* Solov'ëv, Aleksandr Artëmovich) L_p-theory of boundary integral equations on a contour with inward peak. (English summary) **99g:31003**

Solov'ëv, Aleksandr Artëmovich *see* **Maz'ya, Vladimir G., 99g:31003** *and* **99i:31001**

Items with secondary classifications in 31A10

Bruna, Joaquim (*with* Ortega-Cerdà, Joaquim) On L^p-solutions of the Laplace equation and zeros of holomorphic functions. **99c:31011**

Fisher, Albert M. *see* **Kaimanovich, Vadim A., 99d:60087**

Kaimanovich, Vadim A. (*with* Fisher, Albert M.) A Poisson formula for harmonic projections. (English and French summaries) **99d:60087**

Ortega-Cerdà, Joaquim *see* **Bruna, Joaquim, 99c:31011**

Tamrazov, Promarz Eremenko's extremal problem on harmonic functions. (English and Polish summaries) **99g:31002**

Vagarshakyan, A. A. Weighted Dirichlet classes. **99h:30051**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Akeroyd, John Harmonic measures on complementary subregions of the disk. (English summary) **99f:31002**

Betsakos, Dimitrios Polarization, conformal invariants, and Brownian motion. (English summary) **99g:31004**

Bhattacharya, Tilak (*with* Weitsman, Allen) Bounds for capacities in terms of asymmetry. **99c:31004**

Dragnev, P. D. *see* **Kuijlaars, A. B. J., 99f:31003**

Fang, Qi Qin (*with* Zhang, Shunyan) Capacity and covering theorems. (English and Chinese summaries) **99g:31005**

Kapanadze, D. V. An inverse problem of potential theory for piecewise-smooth domains. (Georgian. English and Russian summaries)

Kuijlaars, A. B. J. (*with* Dragnev, P. D.) Equilibrium problems associated with fast decreasing polynomials. (English summary) **99f:31003**

Lubinsky, D. S. Small values of polynomials and potentials with L_p normalization. (English summary) **99c:31005**

Lundh, Torbjörn Discrete groups and thin sets. (English summary) **99h:31005**

Monterie, M. A. Capacities of certain Cantor sets. (English summary) **99h:31006**

Reich, Edgar Steiner symmetrization and the conformal moduli of parallelograms. **99m:31004**

Tadie Radially symmetric functions as fixed points of some logarithmic operators. (English summary) **99j:31003**

Thurman, Robert E. Maximal capacity, Robin capacity, and minimum energy. (English summary) **99f:31004**

Weitsman, Allen *see* **Bhattacharya, Tilak, 99c:31004**

Zhang, Shunyan *see* **Fang, Qi Qin, 99g:31005**

Items with secondary classifications in 31A15

Andrievskii, Vladimir V. (*with* Blatt, H.-P.; Kovacheva, R. K.) Approximation on an unbounded interval. (English summary) **99a:41014**
Blatt, H.-P. *see* **Andrievskii, Vladimir V.; et al., 99a:41014**
Dijkstra, Jan J. (*with* van Mill, Jan) Projections of planar Cantor sets in potential theory. **99d:28005**
Dowling, Thomas (*with* O'Farrell, Anthony G.) Sobolev space analytic capacities. (English summary) **99g:46042**
Dubejko, Tomasz Circle-packing connections with random walks and a finite volume method. (English summary) **99b:52039**
Èiderman, V. Ya. Hausdorff measure and capacity associated with Cauchy potentials. (Russian. Russian summary) **99m:28015**
Fryntov, A. E. (*with* Rossi, John; Weitsman, Allen) Circular means of fine Green's functions and the longest arc relation. (English summary) **99m:31001**
He, Matthew X. (*with* Pan, K. C.; Ricci, Paolo Emilio) Asymptotics of the zeros of relativistic Hermite polynomials. (English summary) **99b:33017**
Hinkkanen, Aimo ★ Applications of complex dynamics and potential theory. **99i:30046**
Jin, Naondo (*with* Ohtsuka, Makoto) On continuity of extremal distance in case islands exist. **99f:31010**
Kovacheva, R. K. *see* **Andrievskii, Vladimir V.; et al., 99a:41014**
Medková, Dagmar Reflected double layer potentials and Cauchy's operators. (English summary) **99m:30079**
Mel'nikov, M. S. A discrete approach to analytic capacity and the curvature of a measure. (English summary) **99d:30027**
van Mill, Jan *see* **Dijkstra, Jan J., 99d:28005**
O'Farrell, Anthony G. *see* **Dowling, Thomas, 99g:46042**
Ohtsuka, Makoto *see* **Jin, Naondo, 99f:31010**
Pan, K. C. *see* **He, Matthew X.; et al., 99b:33017**
Pruss, Alexander R. Steiner symmetry, horizontal convexity, and some Dirichlet problems. (English summary) **99c:31002**
Ricci, Paolo Emilio *see* **He, Matthew X.; et al., 99b:33017**
Rossi, John *see* **Fryntov, A. E.; et al., 99m:31001**
Solynin, A. Yu. Some extremal problems on the hyperbolic polygons. (English summary) **99j:30030**
— Extremal problems on conformal moduli and estimates for harmonic measures. (English summary) **99k:30040**
Sugawa, Toshiyuki Various domain constants related to uniform perfectness. (English summary) **99h:30043**
Weitsman, Allen *see* **Fryntov, A. E.; et al., 99m:31001**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Di Biase, Fausto (*with* Stokolos, A. M.; Svensson, Olof; Weiss, Tomasz) Tangential boundary behaviour of bounded harmonic functions in the unit disc. (English summary) **99f:31005**
Hallenbeck, D. J. Tangential limits of Cauchy-Stieltjes transforms. (English summary) **99b:31001**
Kolesnikov, S. V. Some remarks on descriptive-metric characteristics of singular sets of analytic functions. (Russian. Russian summary) **99i:31002**
Pavićević, Žarko (*with* Šušić, Jela) Boundary behavior of subharmonic functions on the unit disk. (English summary) **99m:31005**
Rönning, Jan-Olav Convergence results for the square root of the Poisson kernel. (English summary) **99e:31004**
Stokolos, A. M. *see* **Di Biase, Fausto; et al., 99f:31005**
Šušić, Jela *see* **Pavićević, Žarko, 99m:31005**
Svensson, Olof *see* **Di Biase, Fausto; et al., 99f:31005**
Topuriya, S. B. Boundary properties of a differential Poisson integral in a half-space and the representation of a function of two variables. (Russian. English and Georgian summaries)
Weiss, Tomasz *see* **Di Biase, Fausto; et al., 99f:31005**
Wu, Jang-Mei Growth and asymptotic sets of subharmonic functions. **99m:31006**

Items with secondary classifications in 31A20

Beretta, Elena (*with* Vessella, Sergio) Stable determination of boundaries from Cauchy data. (English summary) **99j:35229**
Duren, Peter (*with* Hengartner, Walter) Harmonic mappings of multiply connected domains. (English summary) **99f:30051**
Ephremidze, L. On approximate factorization of the spectral measures of stationary processes. (English and Georgian summaries) **99g:60080**
Gotoh, Yasuhiro Integrability of superharmonic functions, uniform domains, and Hölder domains. (English summary) **99h:46036**
Gustafsson, Björn On mother bodies of convex polyhedra. (English summary) **99m:31008**
Hengartner, Walter *see* **Duren, Peter, 99f:30051**
Mesmoudi, M. M. Un théorème de type Fatou pour les densités quasi-conformes sur le bord d'un disque hyperbolique au sens de Gromov. (English and French summaries) [A Fatou-type theorem for quasiconformal densities on the boundary of a Gromov hyperbolic disc] **99a:53054**
Svensson, Olof On generalized Fatou theorems for the square root of the Poisson kernel and in rank one symmetric space. **99c:42035**
Topuriya, S. B. Boundary properties of the derivatives of the Poisson integral in a half-space. (Russian. English and Georgian summaries)
Vessella, Sergio *see* **Beretta, Elena, 99j:35229**
Xiao, Jie[1] The $\overline{\partial}$-problem for multipliers of the Sobolev space. (English summary) **99g:46047**

31A25 Boundary value and inverse problems

Berrone, Lucio R. On a conjecture relative to the maximum of harmonic functions on convex domains: unbounded domains. (English summary) **99h:31007**

Items with secondary classifications in 31A25

Bârză, Ilie (*with* Ghişa, D.) Boundary value problems on nonorientable surfaces. (English summary) **99j:30047**
Belov, Sergei (*with* Fujii, Nobuo) Solution of the Dirichlet problem for Laplace equation on domains with analytic boundaries. (English summary) (*see* **99d:00026**)
Fujii, Nobuo *see* **Belov, Sergei, (99d:00026)**
Ghişa, D. *see* **Bârză, Ilie, 99j:30047**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Linttner, Małgorzata The biharmonic polynomials of the two independent variables. (English summary) **99h:31008**
Pavlović, Miroslav Mean growth and L^p integrability of the derivatives of a polyharmonic function in the unit disc. (English summary) **99f:31006**
Zhao, Zhen[1] Bianalytic functions and applications. (English summary) **99h:31009**

Items with secondary classifications in 31A30

Agranovich, P. Z. Polynomial asymptotic representations of subharmonic functions with masses on a finite system of rays. (Russian. English, Russian and Ukrainian summaries) **99c:30053**
Campbell, Alain (*with* Nazarov, Sergei A.) An asymptotic study of a plate problem by a rearrangement method. Application to the mechanical impedance. (English and French summaries) **99g:73022**
Dubejko, Tomasz Circle-packing connections with random walks and a finite volume method. (English summary) **99b:52039**
Jeon, Youngmok (*with* Kimn, Ha-Jine) New boundary element formulas for plane elasticity. (English summary) **99d:73096**
Khoromskiĭ, B. N. (*with* Schmidt, Gunther) A fast interface solver for the biharmonic Dirichlet problem on polygonal domains. (English summary) **99a:65132**
Kimn, Ha-Jine *see* **Jeon, Youngmok, 99d:73096**
Nazarov, Sergei A. *see* **Campbell, Alain, 99g:73022**
Schmidt, Gunther *see* **Khoromskiĭ, B. N., 99a:65132**
Shimorin, S. M. The Green functions for weighted biharmonic operators of the form $\Delta w^{-1}\Delta$ in the unit disk. (English summary) **99k:35038**

31A35 Connections with differential equations

Demuth, Michael (*with* McGillivray, Ivor; Noll, A.) Capacity and spectral theory. **99f:31007**
McGillivray, Ivor *see* **Demuth, Michael; et al., 99f:31007**
Noll, A. *see* **Demuth, Michael; et al., 99f:31007**

31A99 None of the above, but in this section

Deift, P. (*with* Kriecherbauer, Thomas; McLaughlin, K. T.-R.) New results for the asymptotics of orthogonal polynomials and related problems via the Lax-Levermore method. (English summary) **99c:31006**
Kriecherbauer, Thomas *see* **Deift, P.; et al., 99c:31006**
McLaughlin, K. T.-R. *see* **Deift, P.; et al., 99c:31006**
Selmi, Mohamed Critères de comparaison des noyaux de Green sur certains domaines de $\mathbf{R}^2$. [Criteria for comparing Green kernels in certain domains in $\mathbf{R}^2$] **99j:31004**

Items with secondary classifications in 31A99

Driscoll, Tobin A. (*with* Toh, Kim-Chuan; Trefethen, Lloyd N.) From potential theory to matrix iterations in six steps. (English summary) **99f:65049**
González-López, Artemio (*with* Kamran, Niky; Olver, Peter J.) Quasi-exact solvability in the real domain. (English summary) **99b:17029**
Kamran, Niky *see* **González-López, Artemio; et al., 99b:17029**
Kuijlaars, A. B. J. (*with* Van Assche, Walter) A problem of Totik on fast decreasing polynomials. (English summary) **99b:26026**
Olver, Peter J. *see* **González-López, Artemio; et al., 99b:17029**
Toh, Kim-Chuan *see* **Driscoll, Tobin A.; et al., 99f:65049**
Trefethen, Lloyd N. *see* **Driscoll, Tobin A.; et al., 99f:65049**
Van Assche, Walter *see* **Kuijlaars, A. B. J., 99b:26026**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Abdullaev, B. I. (*with* Imomkulov, S. A.) Removable singularities of subharmonic functions in the classes L_p and L^1_p. (Russian. English and Uzbek summaries) **99j:31005**
Aikawa, Hiroaki Semibounded perturbation of Green function in an NTA domain. (English summary) **99c:31007**
Aldred, M. P. (*with* Armitage, David H.) Inequalities for surface integrals of non-negative subharmonic functions. (English summary) **99h:31010**
— (*with* Armitage, David H.) Harmonic analogues of G. R. MacLane's universal functions. **99g:31006**
— (*with* Armitage, David H.) Harmonic analogues of G. R. Mac Lane's universal functions. II. **99g:31007**
Anandam, Victor (*with* Damlakhi, Moustafa) Harmonic singularity at infinity in $\mathbf{R}^n$. (English summary) **99f:31008**
Arakelyan, N. U. (*with* Gauthier, Paul M.) Propagation of smallness and the uniqueness of harmonic and holomorphic functions. (Russian. Russian summary) **99h:31011**
Armitage, David H. The Pompeiu property for spherical polygons. (English summary) **99f:31009**
— (*with* Haußmann, Werner; Zeller, Karl) Best harmonic and polyharmonic approximation. **99c:31008**

— (*with* Gardiner, Stephen J.; Haußmann, Werner; Rogge, L.) Best one-sided L^1-approximation by harmonic functions. (English summary) **99e:31005**
— *see also* **Aldred, M. P., 99g:31006; 99g:31007** *and* **99h:31010**
Ben Natan, Yaakov (*with* Weit, Yitzhak) Integrable harmonic functions on $\mathbf{R}^n$. (English summary) **99c:31009**
Bonami, Aline (*with* Bruna, Joaquim; Grellier, Sandrine) On Hardy, BMO and Lipschitz spaces of invariantly harmonic functions in the unit ball. **99g:31008**
Bruna, Joaquim *see* **Bonami, Aline; et al., 99g:31008**
Choe, Boo Rim (*with* Yi, Heungsu) Representations and interpolations of harmonic Bergman functions on half-spaces. (English summary) **99k:31002**
Choi, Changsun A weak-type inequality for differentially subordinate harmonic functions. (English summary) **99e:31006**
Damlakhi, Moustafa *see* **Anandam, Victor, 99f:31008**
Gardiner, Stephen J. *see* **Armitage, David H.; et al., 99e:31005**
Gauthier, Paul M. *see* **Arakelyan, N. U., 99h:31011**
Gotoh, Yasuhiro Global integrability of BMO functions on general domains and its application to superharmonic functions. (Japanese) (*see* **99a:00036**)
Grellier, Sandrine *see* **Bonami, Aline; et al., 99g:31008**
Gustafsson, Björn (*with* Sakai, Makoto; Shapiro, Harold S.) On domains in which harmonic functions satisfy generalized mean value properties. (English summary) **99b:31002**
Haußmann, Werner *see* **Armitage, David H.; et al., 99c:31008** *and* **99e:31005**
Imomkulov, S. A. *see* **Abdullaev, B. I., 99j:31005**
Iwasaki, Katsunori Polytopes, invariants, and PDEs. **99a:31002**
Kenig, Carlos E. Flatness of domains and doubling properties of measures supported on their boundary, with applications to harmonic measure. (English summary) **99c:31010**
Kondratyuk, A. A. (*with* Tarasyuk, Svyatoslav I.) Compact operators and normal families of subharmonic functions. **99a:31003**
Kopylov, Anatoliĭ Pavlovich Stability in the C^1-norm of classes of harmonic mappings. (Russian. Russian summary) **99i:31003**
— On the stability of classes of harmonic mappings in the C-norm. (Russian. Russian summary) **99i:31004**
Lai, Xue Jian *see* **Liu, Jia Kun, 99b:31003**
Lee, Jaesung An invariant mean value property in the polydisc. **99k:31003**
Liu, Jia Kun (*with* Lai, Xue Jian) The converse of the mean value theorem for harmonic functions and harmonic measures. (Chinese. English and Chinese summaries) **99b:31003**
Nakai, Mitsuru (*with* Tada, Toshimasa) A form of classical Liouville theorem. **99a:31004**
Rogge, L. *see* **Armitage, David H.; et al., 99e:31005**
Sadullaev, A. (*with* Yarmetov, Zh. R.) Removable singularities of subharmonic functions in the class Lip_α. (Russian. Russian summary) **99e:31007**
Sakai, Makoto Sharp estimates of the distance from a fixed point to the frontier of a Hele-Shaw flow. (English summary) **99e:31008**
— *see also* **Gustafsson, Björn; et al., 99b:31002**
Shapiro, Harold S. *see* **Gustafsson, Björn; et al., 99b:31002**
Suzuki, Noriaki Generalized normal differentials and a uniqueness theorem for harmonic functions. (Japanese) (*see* **99a:00036**)
Tada, Toshimasa *see* **Nakai, Mitsuru, 99a:31004**
Tarasyuk, Svyatoslav I. *see* **Kondratyuk, A. A., 99a:31003**
Weit, Yitzhak *see* **Ben Natan, Yaakov, 99c:31009**
Yang, Chun Peng S-harmonic function and Riesz decomposition theorem of superprocesses. (English summary)
Yarmetov, Zh. R. *see* **Sadullaev, A., 99e:31007**
Yi, Heungsu *see* **Choe, Boo Rim, 99k:31002**
Zeller, Karl *see* **Armitage, David H.; et al., 99c:31008**

Items with secondary classifications in 31B05

Adams, David R. (*with* Lenhart, Suzanne; Yong, Jiong Min) Optimal control of the obstacle for an elliptic variational inequality. (English summary) **99h:49004**
Aikawa, Hiroaki Norm estimate of Green operator, perturbation of Green function and integrability of superharmonic functions. **99m:35042**
Anandam, Victor (*with* Damlakhi, Moustafa) Biharmonic Green domains in $\mathbf{R}^n$. (English summary) **99j:31012**
Bagby, Thomas (*with* Gauthier, Paul M.) Note on the support of Sobolev functions. (English summary) **99g:46037**
Bañuelos, Rodrigo (*with* Wang, Gang[2]) Orthogonal martingales under differential subordination and applications to Riesz transforms. **99a:60047**
Berrone, Lucio R. Explicit bounds for harmonic functions satisfying boundary conditions of mixed type. (English summary) **99e:35038**
Carleheď, Magnus Comparison of the pluricomplex and the classical Green functions. **99e:32019**
Cerejeiras, P. Decomposition of analytic hyperbolically harmonic functions. (English summary) **99m:30090**
Chevalier, Lucien Une "formule de Tanaka" en analyse harmonique et quelques applications. (French summary) [A "Tanaka formula" in harmonic analysis and some applications] **99j:42024**
Dager, S. R. (*with* Presa Sagué, Arturo) On an analogue of the Runge theorem for harmonic differential forms. (Russian. English and Russian summaries) **99d:58009**
Damlakhi, Moustafa *see* **Anandam, Victor, 99j:31012**
Gardiner, Stephen J. Harmonic approximation and boundary behaviour. (English summary) **99e:31001**
— Asymptotic values and minimal fine limits of subharmonic functions of slow growth. (English summary) **99k:31006**
Gauthier, Paul M. *see* **Bagby, Thomas, 99g:46037**
Gorokhov, Yu. A. Approximation by harmonic functions in the C^m-norm, and the harmonic C^m-capacity of compact sets in $\mathbf{R}^n$. (Russian. Russian summary) **99g:41029**
Karachik, V. V. On one set of orthogonal harmonic polynomials. (English summary) **99g:33034**
Kenig, Carlos E. (*with* Pipher, Jill) The absolute continuity of elliptic measure revisited. **99j:31010**
— (*with* Wang, Wen Sheng[1]) A note on boundary unique continuation for harmonic functions in non-smooth domains. (English summary) **99c:35048**
Lê Hai Khôi *see* **Morimoto, Mitsuo, 99e:32003**
Lenhart, Suzanne *see* **Adams, David R.; et al., 99h:49004**
Ligocka, Ewa On extensions of the Mittag-Leffler theorem. (English summary) **99e:32007**
Lundh, Torbjörn Discrete groups and thin sets. (English summary) **99h:31005**
Medková, Dagmar The boundary-value problems for Laplace equation and domains with nonsmooth boundary. (English summary) **99f:35038**
Morimoto, Mitsuo (*with* Lê Hai Khôi) Representation of harmonic functions in the Lie ball by Dirichlet series. (English summary) **99e:32003**
Nakai, Mitsuru (*with* Tada, Toshimasa) Picard principle for negative planar potentials. **99d:31001**
Pipher, Jill *see* **Kenig, Carlos E., 99j:31010**
Presa Sagué, Arturo *see* **Dager, S. R., 99d:58009**
Tada, Toshimasa *see* **Nakai, Mitsuru, 99d:31001**
Tamrazov, Promarz Eremenko's extremal problem on harmonic functions. (English summary) **99e:31003**
Thalmaier, Anton (*with* Wang, Feng Yu) Gradient estimates for harmonic functions on regular domains in Riemannian manifolds. (English summary) **99g:58132**
Uguzzoni, Francesco A Liouville-type theorem on halfspaces for the Kohn Laplacian. (English summary) **99b:35026**
Wang, Feng Yu *see* **Thalmaier, Anton, 99g:58132**
Wang, Gang[2] *see* **Bañuelos, Rodrigo, 99a:60047**
Wang, Wen Sheng[1] *see* **Kenig, Carlos E., 99c:35048**
Yang, Chun Peng Super-spacetime harmonic functions and a class of nonlinear parabolic equations. (Chinese. English and Chinese summaries) **99k:35089**
Yong, Jiong Min *see* **Adams, David R.; et al., 99h:49004**

31B10 Integral representations, integral operators, integral equations methods

Bruna, Joaquim (*with* Ortega-Cerdà, Joaquim) On L^p-solutions of the Laplace equation and zeros of holomorphic functions. **99c:31011**
Hu, Guo En (*with* Lu, Shan Zhen; Yang, Da Chun) Boundedness of rough singular integral operators on homogeneous Herz spaces. (English summary) **99k:31004**
Lu, Shan Zhen *see* **Hu, Guo En; et al., 99k:31004**
Medková, Dagmar Solution of the Neumann problem for the Laplace equation. (English summary) **99k:31005**
Mitrea, Dorina (*with* Mitrea, Marius; Pipher, Jill) Vector potential theory on nonsmooth domains in $\mathbf{R}^3$ and applications to electromagnetic scattering. (English summary) **99e:31009**
Mitrea, Marius *see* **Mitrea, Dorina; et al., 99e:31009**
Miyamoto, Ikuko *see* **Yoshida, Hidenobu, 99j:31007**
Ortega-Cerdà, Joaquim *see* **Bruna, Joaquim, 99c:31011**
Pipher, Jill *see* **Mitrea, Dorina; et al., 99e:31009**
Samsoniya, Z. V. On closeness of kernels of potential type integral equation. (English summary)
Watson, Neil A. Initial limits of temperatures on arbitrary open sets. (English summary) **99j:31006**
Yang, Da Chun *see* **Hu, Guo En; et al., 99k:31004**
Yi, Heungsu Poisson integrals contained in harmonic Bergman spaces on upper half-space. (English summary) **99g:31009**
Yoshida, Hidenobu (*with* Miyamoto, Ikuko) Particular solutions of the Dirichlet problem on a strip with continuous data. (English summary) **99j:31007**

Items with secondary classifications in 31B10

Greenbaum, A. (*with* Mayo, Anita A.) Rapid parallel evaluation of integrals in potential theory on general three-dimensional regions. (English summary) **99e:65038**
Kalton, Nigel J. (*with* Verbitskiĭ, I. È.) Nonlinear equations and weighted norm inequalities. (English summary) **99m:35073**
Král, Josef (*with* Medková, Dagmar) Essential norms of a potential-theoretic boundary integral operator in L^1. (English summary) **99m:31009**
Lang, Reinhard Über die Bestimmung von Leitfähigkeiten durch Oberflächenmessungen. (German summary) [On the determination of conductivity through surface measurements] **99f:78022**
Li, Hong-Quan La transformation de Riesz sur les variétés coniques. (English and French summaries) [The Riesz transform on cones] **99k:58192**
Mayo, Anita A. *see* **Greenbaum, A., 99e:65038**
Mazouzi, S. (*with* Pederson, R. N.) Explicit representation of the solution to some boundary value problem. (English summary) **99f:34017**
Medková, Dagmar Solution of the Robin problem for the Laplace equation. (English summary) **99a:35054**
— The boundary-value problems for Laplace equation and domains with nonsmooth boundary. (English summary) **99f:35038**
— *see also* **Král, Josef, 99m:31009**
Pederson, R. N. *see* **Mazouzi, S., 99f:34017**
Stupyalis, L. Some problems in vector analysis. (Russian. Lithuanian summary) **99m:46176**
Topuriya, S. B. Generalized Laplacian and boundary properties of differentiated Poisson integrals for a half-space. (English summary) **99i:35011**
Verbitskiĭ, I. È. *see* **Kalton, Nigel J., 99m:35073**

31B15 Potentials and capacities, extremal length

Aikawa, Hiroaki Capacity and Hausdorff content of certain enlarged sets. (English summary) **99b:31004**
Benzécri, Jean-Paul Théorie des capacités (d'après G. Choquet). [Capacity theory (after G. Choquet)] (*see* **99f:00035**)
Caraman, Petru About cases of equality between the p-module and the p-capacity. (English summary) **99m:31007**

Demshin, I. N. φ-modulus and φ-capacity. (Russian. English and Russian summaries) **99i:31005**
Dymchenko, Yu. V. (*with* Shlyk, V. A.) A relation between weighted condensor capacity and the weighted modulus of a family of separating surfaces. (Russian. English summary) **99j:31008**
Èĭderman, V. Ya. Estimates for potentials and δ-subharmonic functions outside exceptional sets. (Russian. Russian summary) **99c:31012**
Jin, Naondo (*with* Ohtsuka, Makoto) On continuity of extremal distance in case islands exist. **99f:31010**
Markina, I. G. Classification of sub-Riemannian manifolds. (Russian. Russian summary) **99e:31010**
Mizuta, Yoshihiro (*with* Shimomura, Tetsu) Exponential integrability for Riesz potentials of functions in Orlicz classes. (English summary) **99h:31012**
Ohtsuka, Makoto *see* **Jin, Naondo, 99f:31010**
Sergeev, A. I. Uniqueness and normality for M. Riesz potentials and solutions of the Darboux equation. (Russian. English and Russian summaries) **99a:31005**
Shimomura, Tetsu *see* **Mizuta, Yoshihiro, 99h:31012**
Shlyk, V. A. *see* **Dymchenko, Yu. V., 99j:31008**

Items with secondary classifications in 31B15

Bhattacharya, Tilak (*with* Weitsman, Allen) Bounds for capacities in terms of asymmetry. **99c:31004**
Choi, Changsun A weak-type inequality for differentially subordinate harmonic functions. (English summary) **99e:31006**
Dragnev, P. D. (*with* Saff, Edward B.) Constrained energy problems with applications to orthogonal polynomials of a discrete variable. (English summary) **99f:42048**
Koshevoĭ, G. A. Distributive lattices and products of capacities. **99i:06011**
Lundh, Torbjörn Discrete groups and thin sets. (English summary) **99h:31005**
Métris, Gilles (*with* Xu, Jin; Wytrzyszczak, Iwona) Derivatives of the gravity potential with respect to rectangular coordinates. (English summary) **99j:70017**
Nakai, Mitsuru Quasiisometric mappings and the variational capacity. **99e:30013**
Saff, Edward B. *see* **Dragnev, P. D., 99f:42048**
Shapiro, Harold S. Quasi-balayage and a priori estimates for the Laplace operator. I, II. **99c:35040**
Varopoulos, Nicholas T. Potential theory in conical domains. **99i:60145**
Weitsman, Allen *see* **Bhattacharya, Tilak, 99c:31004**
Wytrzyszczak, Iwona *see* **Métris, Gilles; et al., 99j:70017**
Xu, Jin *see* **Métris, Gilles; et al., 99j:70017**
Ying, Jiangang Strong subordination of symmetric Dirichlet forms. (English summary) **99c:60165**
Zorīĭ, N. V. Capacities of a space condenser. (English and Polish summaries) **99i:31007**

31B20 Boundary value and inverse problems

Gustafsson, Björn Direct and inverse balayage—some new developments in classical potential theory. **99e:31011**
— On mother bodies of convex polyhedra. (English summary) **99m:31008**
Kireĭtov, V. R. The stationary translationally invariant Peierls equation in radiation transfer theory in the space of slowly growing distributions, and some properties of the Peierls potential. I. (Russian. Russian summary) **99c:31013a**
— The stationary translationally invariant Peierls equation in radiative transfer theory in the space of slowly growing distributions, and some properties of the Peierls potential. II. (Russian. Russian summary) **99c:31013b**
Král, Josef (*with* Medková, Dagmar) Essential norms of a potential-theoretic boundary integral operator in L^1. (English summary) **99m:31009**
Lipton, Robert The second Stekloff eigenvalue and energy dissipation inequalities for functionals with surface energy. (English summary) **99c:31014**
Medková, Dagmar *see* **Král, Josef, 99m:31009**
Miyamoto, Ikuko *see* **Yoshida, Hidenobu, 99b:31005**
Yoshida, Hidenobu (*with* Miyamoto, Ikuko) Solutions of the Dirichlet problem on a cone with continuous data. **99b:31005**

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Alessandrini, Giovanni (*with* Rosset, Edi) The inverse conductivity problem with one measurement: bounds on the size of the unknown object. (English summary) **99j:35227**
Bonami, Aline (*with* Bruna, Joaquim; Grellier, Sandrine) On Hardy, BMO and Lipschitz spaces of invariantly harmonic functions in the unit ball. **99g:31008**
Bruna, Joaquim *see* **Bonami, Aline; et al., 99g:31008**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Wiener's criterion and shape continuity for the Dirichlet problem. (Italian summary) **99b:35037**
Grellier, Sandrine *see* **Bonami, Aline; et al., 99g:31008**
He, Sailing (*with* Romanov, Vladimir Gavrilovich) Identification of dipole sources in a bounded domain for Maxwell's equations. (English summary) **99c:78009**
Kenig, Carlos E. (*with* Pipher, Jill) The absolute continuity of elliptic measure revisited. **99j:31010**
Kim, Hyunseok (*with* Seo, Jin Keun) Identification problems in linear elasticity. (English summary) **99a:73046**
Mitrea, Dorina (*with* Mitrea, Marius; Pipher, Jill) Vector potential theory on nonsmooth domains in $\mathbf{R}^3$ and applications to electromagnetic scattering. (English summary) **99e:31009**
Mitrea, Marius *see* **Mitrea, Dorina; et al., 99e:31009**
Pipher, Jill *see* **Mitrea, Dorina; et al., 99e:31009** *and* **Kenig, Carlos E., 99j:31010**
Romanov, Vladimir Gavrilovich *see* **He, Sailing, 99c:78009**
Rosset, Edi *see* **Alessandrini, Giovanni, 99j:35227**
Seo, Jin Keun *see* **Kim, Hyunseok, 99a:73046**
Zolésio, Jean-Paul *see* **Bucur, Dorin, 99b:35037**

31B25 Boundary behavior

Bogdan, Krzysztof (*with* Byczkowski, Tomasz) Potential theory for the α-stable Schrödinger operator on bounded Lipschitz domains. (English summary) **99m:31010**
Byczkowski, Tomasz *see* **Bogdan, Krzysztof, 99m:31010**
Cialdea, A. The brothers Riesz theorem for conjugate differential forms in $\mathbf{R}^n$. (English summary) **99j:31009**
Cornea, Aurel Applications of controlled convergence in analysis. (English summary) **99m:31011**
Fernández-Pérez, José L. On asymptotic values of subharmonic functions. (English summary) **99h:31013**
Gardiner, Stephen J. Asymptotic values and minimal fine limits of subharmonic functions of slow growth. (English summary) **99k:31006**
Gowrisankaran, Kohur (*with* Singman, David) Thin sets and boundary behavior of solutions of the Helmholtz equation. (English summary) **99k:31007**
Kenig, Carlos E. (*with* Pipher, Jill) The absolute continuity of elliptic measure revisited. **99j:31010**
Miklyukov, Vladimir M. (*with* Vuorinen, Matti K.) A boundary uniqueness theorem for Sobolev functions. (English summary) **99j:31011**
Mizuta, Yoshihiro (*with* Shimomura, Tetsu) Boundary limits of spherical means for BLD and monotone BLD functions in the unit ball. (English summary) **99m:31012**
Nakai, Mitsuru (*with* Tada, Toshimasa) Picard principle for negative planar potentials. **99d:31001**
Pipher, Jill *see* **Kenig, Carlos E., 99j:31010**
Shimomura, Tetsu *see* **Mizuta, Yoshihiro, 99m:31012**
Singman, David *see* **Gowrisankaran, Kohur, 99k:31007**
Stoll, Manfred Weighted tangential boundary limits of subharmonic functions on domains in $\mathbf{R}^n$ ($n \geq 2$). (English summary) **99m:31013**
Tada, Toshimasa *see* **Nakai, Mitsuru, 99d:31001**
Topuriya, S. B. Boundary properties of second-order partial derivatives of the Poisson integral for a half-space $\mathbf{R}^{k+1}_+$ ($k > 1$). (English summary) **99m:31014**
Vuorinen, Matti K. *see* **Miklyukov, Vladimir M., 99j:31011**
Watanabe, Hisako Layer heat potentials for a bounded cylinder with fractal lateral boundary. **99k:31008**

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Aikawa, Hiroaki Capacity and Hausdorff content of certain enlarged sets. (English summary) **99b:31004**
Burdzy, Krzysztof (*with* Salisbury, Thomas S.) On minimal parabolic functions and time-homogeneous parabolic h-transforms. (English summary) **99m:60113**
Chen, Zhen-Qing (*with* Durrett, Richard; Ma, Gang) Holomorphic diffusions and boundary behavior of harmonic functions. (English summary) **99k:60195**
Cialdea, A. The brothers Riesz theorem: complex and real versions. **99h:42002**
Di Biase, Fausto ★ Fatou type theorems. (English summary) **99f:31012**
Durrett, Richard *see* **Chen, Zhen-Qing; et al., 99k:60195**
Giachetti, Daniela (*with* Leonetti, Francesco; Schianchi, Rosanna) Boundary regularity and uniqueness for very weak $\mathscr{A}$-harmonic functions. (English summary) **99g:35042**
Král, Josef (*with* Medková, Dagmar) Essential norms of a potential-theoretic boundary integral operator in L^1. (English summary) **99m:31009**
Leonetti, Francesco *see* **Giachetti, Daniela; et al., 99g:35042**
Ma, Gang *see* **Chen, Zhen-Qing; et al., 99k:60195**
Medková, Dagmar *see* **Král, Josef, 99m:31009**
Salisbury, Thomas S. *see* **Burdzy, Krzysztof, 99m:60113**
Schianchi, Rosanna *see* **Giachetti, Daniela; et al., 99g:35042**
Toro, Tatiana Doubling and flatness: geometry of measures. **99d:28010**
Watson, Neil A. Initial limits of temperatures on arbitrary open sets. (English summary) **99j:31006**

31B30 Biharmonic and polyharmonic equations and functions

Anandam, Victor (*with* Damlakhi, Moustafa) Biharmonic Green domains in $\mathbf{R}^n$. (English summary) **99j:31012**
Damlakhi, Moustafa *see* **Anandam, Victor, 99j:31012**
Ligocka, Ewa Elementary proofs of the Liouville and Böcher theorems for polyharmonic functions. (English summary) **99d:31002**

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Caristi, Gabriella (*with* Mitidieri, Enzo; Soranzo, Ramon) Isolated singularities of polyharmonic equations. **99i:35035**
Kipriyanova, N. I. A mean-value theorem for a B-polyharmonic equation. (Russian)
Ligocka, Ewa On extensions of the Mittag-Leffler theorem. (English summary) **99e:32007**
Mitidieri, Enzo *see* **Caristi, Gabriella; et al., 99i:35035**
Pavlović, Miroslav Decompositions of L^p and Hardy spaces of polyharmonic functions. (English summary) **99b:46029**
Soranzo, Ramon *see* **Caristi, Gabriella; et al., 99i:35035**

31B35 Connections with differential equations

Markina, I. G. *see* **Vodop'yanov, S. K., 99k:31009**
Nakai, Mitsuru Domain perturbation in Dirichlet problems. (Japanese) (*see* **99i:00018**)
Sowers, Richard B. (*with* Wu, Jang-Mei) Thermal capacity estimates on the Allen-Cahn equation. (English summary) **99i:31006**
Vodop'yanov, S. K. (*with* Markina, I. G.) Foundations of the nonlinear potential theory of subelliptic equations. (Russian) **99k:31009**
Wu, Jang-Mei *see* **Sowers, Richard B., 99i:31006**

Items with secondary classifications in 31B35

Aikawa, Hiroaki Norm estimate of Green operator, perturbation of Green function and integrability of superharmonic functions. **99m:35042**
Anandam, Victor Bipotential elliptic differential operators. (English summary) **99f:35031**
Anastassiou, George A. (*with* Bendikov, A. D.) A sharp error estimate for the numerical solution of multivariate Dirichlet problem. (English summary) **99m:65203**
Bendikov, A. D. *see* **Anastassiou, George A., 99m:65203**

Bertolo, Nativi Viana Pereira Some aspects of generalizations of Cauchy-Riemann equations. (Portuguese. Portuguese summary)
Chung, Soon-Yeong Temperature functions and decomposition theorems. **99b:35080**
Cialdea, A. On the theory of self-conjugate differential forms. (English summary) **99h:58004**
Dynkin, E. B. (*with* Kuznetsov, Sergei E.) Fine topology and fine trace on the boundary associated with a class of semilinear differential equations. (English summary) **99f:35046**
Ertaş, Abdulkadir The reflection principle for Δ_l^p-harmonic functions. (English summary)
Kuznetsov, Sergei E. Removable lateral singularities of semilinear parabolic PDEs and Besov capacities. (English summary) **99m:35095**
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Malusa, Annalisa Harmonic measures of perforated domains. (English summary) **99b:35033**
Nakai, Mitsuru (*with* Tada, Toshimasa) Picard principle for negative planar potentials. **99d:31001**
Popov, A. M. Helmholtz potentiality conditions for systems of differential-difference equations. (Russian. Russian summary) **99k:34183**
Tada, Toshimasa *see* **Nakai, Mitsuru, 99d:31001**
Watson, Neil A. Time-isolated singularities of temperatures. (English summary) **99m:35092**

31B99 None of the above, but in this section

Çınar, İnan On non-isotropic Riesz potentials. (English summary) **99c:31015**
Gadjiev, Akif D. On generalized potential-type integral operators. (English summary) **99b:31006**

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Belova, N. O. Spectral synthesis in weighted Sobolev spaces [translation of Trudy Instituta Matematiki, Vol. 31, 3–39, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99k:46050**
Ding, Shu Sen (*with* Xie, Hong Zheng) Norm comparison theorems for conjugate A-harmonic tensors. (Chinese. Chinese summary) **99c:26014**
Xie, Hong Zheng *see* **Ding, Shu Sen, 99c:26014**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Barlow, Martin T. On the Liouville property for divergence form operators. (English summary) **99k:31010**
Cegrell, Urban (*with* Kołodziej, Sławomir; Levenberg, Norman) Two problems on potential theory for unbounded sets. **99m:31015**
Kołodziej, Sławomir *see* **Cegrell, Urban; et al., 99m:31015**
Levenberg, Norman *see* **Cegrell, Urban; et al., 99m:31015**
Northshield, Sam Positive solutions of Schrödinger's equation on trees. (English summary) **99d:31003**

Items with secondary classifications in 31C05

Choi, Hyeong In (*with* Kim, Seok Woo; Lee, Yong Hah) Rough isometry and the asymptotic Dirichlet problem. (English summary) **99j:58211**
Ichihara, Kanji A Liouville property for difference operators. **99j:60114**
Kim, Seok Woo *see* **Choi, Hyeong In; et al., 99j:58211**
Lee, Yong Hah *see* **Choi, Hyeong In; et al., 99j:58211**
Markina, I. G. *see* **Vodop'yanov, S. K., 99m:53071**
Rigoli, Marco (*with* Salvatori, Maura; Vignati, Marco) Geometry of graphs and manifolds. **99c:53032**
Salvatori, Maura *see* **Rigoli, Marco; et al., 99c:53032**
Uguzzoni, Francesco A Liouville-type theorem on halfspaces for the Kohn Laplacian. (English summary) **99b:35026**
Vignati, Marco *see* **Rigoli, Marco; et al., 99c:53032**
Vodop'yanov, S. K. (*with* Markina, I. G.) Classification of sub-Riemannian manifolds. (Russian. Russian summary) **99m:53071**
Zahid, Mehdi Fonctionnelle additive et ellipticité. [Additive functional and ellipticity] **99c:60166**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Items with secondary classifications in 31C10

Agranovich, P. Z. On functions of completely regular growth with respect to a distinguished variable. (Russian. English, Russian and Ukrainian summaries) **99c:32017**
(Buzzard, Gregery T.) *see* **Smillie, John, 99b:32043**
Cegrell, Urban (*with* Kołodziej, Sławomir; Levenberg, Norman) Two problems on potential theory for unbounded sets. **99m:31015**
Chen, Shujin (*with* Xie, Yongxing) On a generalized Dirichlet problem for analytic family. (English summary) **99c:32018**
Dubtsov, E. S. Henkin measures, Riesz products and singular sets. (English and French summaries) **99k:32020**
Duval, Julien Sur la fonction extrémale plurisousharmonique relative à deux convexes. (English and French summaries) [On the extremal plurisubharmonic function relative to two convex sets] **99g:32025**
Kołodziej, Sławomir *see* **Cegrell, Urban; et al., 99m:31015**
Lárusson, Finnur (*with* Lassere, Patrice; Sigurdsson, Ragnar) Convexity of sublevel sets of plurisubharmonic extremal functions. (English summary) **99d:32018**
— (*with* Sigurdsson, Ragnar) Plurisubharmonic functions and analytic discs on manifolds. **99e:32020**
Lassere, Patrice *see* **Lárusson, Finnur; et al., 99d:32018**
Lelong, Pierre Ensembles de contrôle dans un espace de Banach complexe pour les fonctions plurisousharmoniques. (English summary) [Control sets in a complex Banach space for plurisubharmonic functions] **99b:32047**
Levenberg, Norman *see* **Cegrell, Urban; et al., 99m:31015**
Sigurdsson, Ragnar *see* **Lárusson, Finnur; et al., 99d:32018** *and* **99e:32020**
Smillie, John Complex dynamics in several variables. **99b:32043**
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Yulmukhametov, R. S. Smooth regularization of plurisubharmonic functions. (Russian. Russian summary) **99c:32019**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundaries of finite sheet unbounded covering surfaces. (Japanese) (*see* **99a:00036**)
Masaoka, Hiroaki *see* **Jin, Naondo; et al., (99a:00036)**
Segawa, Shigeo *see* **Jin, Naondo; et al., (99a:00036)**

Items with secondary classifications in 31C12

Babillot, Martine Asymptotics of Green functions on a class of solvable Lie groups. (English summary) **99g:60133**
Baldo, Sisto (*with* Orlandi, Giandomenico) A note on the Hodge theory for functionals with linear growth. (English summary) **99j:58009**
Boboc, Nicu (*with* Bucur, Gheorghe) Characterization of Dirichlet forms by their excessive and co-excessive elements. (English summary) **99f:31013**
Bucur, Gheorghe *see* **Boboc, Nicu, 99f:31013**
Chkadua, O. Some boundary-contact problems of the elasticity theory with mixed boundary conditions outside the contact surface. (English summary) **99a:35249**
Coulhon, Thierry (*with* Duong, Xuan Thinh) Riesz transforms for $1 \le p \le 2$. (English summary) **99e:58174**
Duong, Xuan Thinh *see* **Coulhon, Thierry, 99e:58174**
Gauthier, Paul M. Mittag-Leffler theorems on Riemann surfaces and Riemannian manifolds. (English summary) **99h:30046**
Grigor'yan, Alexander Analytic and geometric background of recurrence and non-explosion of the Brownian motion on Riemannian manifolds. **99k:58195**
Markina, I. G. *see* **Vodop'yanov, S. K., 99m:53071**
Murata, Minoru Structure of positive solutions to Schrödinger equations [translation of Sūgaku **47** (1995), no. 4, 360–376; MR 97f:35033]. (*see* **99a:00057**)
Orlandi, Giandomenico *see* **Baldo, Sisto, 99j:58009**
Rigoli, Marco (*with* Salvatori, Maura; Vignati, Marco) Subharmonic functions on graphs. (English summary) **99a:31006**
Salvatori, Maura *see* **Rigoli, Marco; et al., 99a:31006**
Vignati, Marco *see* **Rigoli, Marco; et al., 99a:31006**
Vodop'yanov, S. K. (*with* Markina, I. G.) Classification of sub-Riemannian manifolds. (Russian. Russian summary) **99m:53071**

31C15 Potentials and capacities

Adams, David R. Choquet integrals in potential theory. (English summary) **99g:31010**
Bendikov, A. D. On the Lévy measures for symmetric stable semigroups on the torus $\mathbf{T}^\infty$. (English summary) **99f:31011**
Dal Maso, Gianni (*with* Skrypnik, Igor V.) Capacity theory for monotone operators. (English summary) **99c:31016**
Higuchi, Isao On the thinness of a closed set in the neighborhood of the point at infinity. (*see* **99a:00036**)
Skrypnik, Igor V. *see* **Dal Maso, Gianni, 99c:31016**
Zorii, N. V. Capacities of a space condenser. (English and Polish summaries) **99i:31007**

Items with secondary classifications in 31C15

Bhattacharya, Tilak (*with* Weitsman, Allen) Bounds for capacities in terms of asymmetry. **99c:31004**
Dal Maso, Gianni (*with* Garroni, Adriana) The capacity method for asymptotic Dirichlet problems. (English summary) **99c:35044**
— (*with* De Cicco, V.; Notarantonio, Lino; Tchou, N. A.) Limits of variational problems for Dirichlet forms in varying domains. (English summary) **99e:35039**
De Cicco, V. *see* **Dal Maso, Gianni; et al., 99e:35039**
Garroni, Adriana *see* **Dal Maso, Gianni, 99c:35044**
Hajłasz, Piotr Pointwise Hardy inequalities. (English summary) **99c:46028**
Kilpeläinen, Tero A remark on the uniqueness of quasi continuous functions. (English summary) **99j:31016**
Malliavin, Paul ★ Stochastic analysis. **99b:60073**
Medková, Dagmar Solution of the Robin problem for the Laplace equation. (English summary) **99a:35054**
Nakai, Mitsuru Quasiisometric mappings and the variational capacity. **99e:30013**
Notarantonio, Lino *see* **Dal Maso, Gianni; et al., 99e:35039**
O'Brien, George L. (*with* Watson, W. Stephen) Relative compactness for capacities, measures, upper semicontinuous functions and closed sets. (English summary) **99m:28008**
Peres, Yuval (*with* Steif, Jeffrey E.) The number of infinite clusters in dynamical percolation. (English summary) **99e:60217**
Popa, Liliana Measures of representation on a standard H-cone. (English summary) **99g:31014**
Steif, Jeffrey E. *see* **Peres, Yuval, 99e:60217**
Tchou, N. A. *see* **Dal Maso, Gianni; et al., 99e:35039**
Watson, W. Stephen *see* **O'Brien, George L., 99m:28008**
Weitsman, Allen *see* **Bhattacharya, Tilak, 99c:31004**
Wu, Jang-Mei Hausdorff dimension and doubling measures on metric spaces. (English summary) **99h:28016**

31C20 Discrete potential theory and numerical methods

Di Biase, Fausto ★ Fatou type theorems. (English summary) **99f:31012**
— Tangential curves and Fatou's theorem on trees. (English summary) **99m:31016**
Holopainen, Ilkka (*with* Soardi, Paolo M.) p-harmonic functions on graphs and manifolds. (English summary) **99c:31017**
Murakami, Atsushi (*with* Yamasaki, Maretsugu) Nonlinear Kuramochi boundaries of infinite networks. (Japanese) (*see* **99a:00036**)
Rigoli, Marco (*with* Salvatori, Maura; Vignati, Marco) Subharmonic functions on graphs. (English summary) **99a:31006**
Salvatori, Maura *see* **Rigoli, Marco; et al., 99a:31006**
Soardi, Paolo M. *see* **Holopainen, Ilkka, 99c:31017**
Vignati, Marco *see* **Rigoli, Marco; et al., 99a:31006**
Yamasaki, Maretsugu *see* **Murakami, Atsushi, (99a:00036)**

Items with secondary classifications in 31C20

Choi, Hyeong In (*with* Kim, Seok Woo; Lee, Yong Hah) Rough isometry and the asymptotic Dirichlet problem. (English summary) **99j:58211**
Cohen, Joel M. (*with* Colonna, Flavia) Spectral analysis on homogeneous trees. (English summary) **99a:05097**
Colonna, Flavia *see* **Cohen, Joel M., 99a:05097**
Dubejko, Tomasz Random walks on circle packings. (English summary) **99d:52017**
Kenyon, Richard Tilings and discrete Dirichlet problems. (English summary) **99m:52026**
Kim, Seok Woo *see* **Choi, Hyeong In; et al., 99j:58211**
Lee, Yong Hah *see* **Choi, Hyeong In; et al., 99j:58211**
Trofimov, V. I. The existence of nonconstant harmonic functions on infinite vertex-symmetric graphs. (English summary) **99g:05102**
Uchiyama, Kôhei Wiener's test for random walks with mean zero and finite variance. (English summary) **99g:60126**
— Green's functions for random walks on $\mathbf{Z}^N$. **99f:60132**
Yamasaki, Maretsugu Extremum problems on a Hilbert network. (English summary) **99b:47107**

31C25 Dirichlet spaces

Beznea, Lucian (*with* Boboc, Nicu) Noyaux fortement surmédians et mesures de Revuz. (English and French summaries) [Strongly supermedian kernels and Revuz measures] **99g:31011**
Boboc, Nicu (*with* Bucur, Gheorghe) Characterization of Dirichlet forms by their excessive and co-excessive elements. (English summary) **99f:31013**
— *see also* **Beznea, Lucian, 99g:31011**
Bucur, Gheorghe *see* **Boboc, Nicu, 99f:31013**
Deny, Jacques Formes et espaces de Dirichlet. [Dirichlet forms and spaces] (*see* **99f:00037**)
— Les deux aspects de la théorie du potentiel. [The two aspects of potential theory] (*see* **99f:00036**)
Dong, Zhao (*with* Gong, Fu-Zhou) A necessary and sufficient condition for quasiregularity of Dirichlet forms corresponding to resolvent kernels. (Chinese. English and Chinese summaries) **99b:31007**
— (*with* Ma, Zhi-Ming; Sun, Wei[3]) A note on Beurling-Deny formulae in infinite-dimensional spaces. (English summary) **99d:31004**
Gong, Fu-Zhou *see* **Dong, Zhao, 99b:31007**
Grillo, Gabriele On Persson's theorem in local Dirichlet spaces. (English summary) **99m:31017**
Hino, Masanori Convergence of non-symmetric forms. **99k:31011**
Jost, Jürgen Nonlinear Dirichlet forms. **99k:31012**
Kahane, Jean-Pierre Quotients de fonctions définies-négatives (d'après Beurling et Deny). [Quotients of negative-definite functions (after Beurling and Deny)] (*see* **99f:00042**)
Kuwae, Kazuhiro Functional calculus for Dirichlet forms. **99h:31014**
Lunt, John (*with* Lyons, Terry; Zhang, Tu Sheng) Integrability of functionals of Dirichlet processes, probabilistic representations of semigroups, and estimates of heat kernels. (English summary) **99g:31012**
Lyons, Terry *see* **Lunt, John; et al., 99g:31012**
Ma, Zhi-Ming *see* **Dong, Zhao; et al., 99d:31004**
Mataloni, Silvia Some duality results for the capacity theory related to non-symmetric Dirichlet forms. (English summary) **99j:31013**
Mosco, Umberto Lagrangian metrics on fractals. (English summary) **99a:31007**
Oshima, Yôichi Families of time-dependent Dirichlet forms and corresponding Markov processes. (Japanese) (*see* **99a:00036**)
Popescu, Emil[2] Balayaged and cobalayaged functions on functional Dirichlet spaces. (English and Romanian summaries) (*see* **99i:00014**)
Röckner, Michael (*with* Zhang, Tu Sheng) Convergence of operators semigroups generated by elliptic operators. **99d:31005**
— Dirichlet forms on infinite-dimensional "manifold-like" state spaces: a survey of recent results and some prospects for the future. (English summary) **99d:31006**
Sturm, Karl-Theodor The geometric aspect of Dirichlet forms. **99j:31014**
— Diffusion processes and heat kernels on metric spaces. (English summary) **99b:31008**
Sun, Wei[3] *see* **Dong, Zhao; et al., 99d:31004**
Zhang, Tu Sheng *see* **Röckner, Michael, 99d:31005** *and* **Lunt, John; et al., 99g:31012**

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Albeverio, Sergio (*with* Kondrat'ev, Yu. G.; Röckner, Michael) Analysis and geometry on configuration spaces: the Gibbsian case. (English summary) **99f:58219**
— (*with* Zhang, Tu Sheng) Approximations of Ornstein-Uhlenbeck processes with unbounded linear drifts. (English summary) **99f:60077**
Chitashvili, R. (*with* Mania, M.) On functions transforming Brownian motion into a Dirichlet process. (English summary) **99e:60183**
Cipriani, Fabio (*with* Grillo, Gabriele) L^p-exponential decay for solutions to functional equations in local Dirichlet spaces. (English summary) **99a:35057**
Dong, Zhao Construction of Markov process with Markov resolvent on $L^p(E,m)$. (English summary) **99b:60115**
Eberle, Andreas Diffusions on path and loop spaces: existence, finite-dimensional approximation and Hölder continuity. (English summary) **99k:58194**
Fukushima, Masatoshi Dirichlet forms, Caccioppoli sets and the Skorohod equation. **99m:60126**
— Distorted Brownian motions and BV functions. (English summary) **99m:60127**
— Analysis of symmetric diffusion processes and related topics in analysis. (Japanese) **99g:60138**
Gianazza, Ugo Existence for a nonlinear problem relative to Dirichlet forms. (English and Italian summaries) **99k:35049**
Grillo, Gabriele *see* **Cipriani, Fabio, 99a:35057**
Gross, Leonard (*with* Rothaus, Oscar S.) Herbst inequalities for supercontractive semigroups. **99i:47074**
Hambly, B. M. (*with* Kumagai, Takashi) Heat kernel estimates and homogenization for asymptotically lower-dimensional processes on some nested fractals. (English summary) **99g:60139**
Jost, Jürgen (*with* Kendall, Wilfrid S.; Mosco, Umberto; Röckner, Michael; Sturm, Karl-Theodor) ★ New directions in Dirichlet forms. **99e:31002**
Kendall, Wilfrid S. *see* **Jost, Jürgen; et al., 99e:31002**
Kigami, Jun Distributions of localized eigenvalues of Laplacians on post critically finite self-similar sets. (English summary) **99g:35096**
Kim, Dae Hong (*with* Kim, Jai Heui; Yun, Yong Sik) Non-symmetric Dirichlet forms for oblique reflecting diffusions. (English summary) **99b:60129**
Kim, Jai Heui On continuous additive functionals of zero energy. (English summary) **99e:60172**
— *see also* **Kim, Dae Hong; et al., 99b:60129**
Kondrat'ev, Yu. G. *see* **Albeverio, Sergio; et al., 99f:58219**
Kumagai, Takashi *see* **Hambly, B. M., 99g:60139**
Kuwae, Kazuhiro (*with* Uemura, Toshihiro) Weak convergence of symmetric diffusion processes. II. (English summary) **99e:60176**
— Recurrence and conservativeness of symmetric diffusion processes by Girsanov transformations. **99g:60141**
— (*with* Uemura, Toshihiro) Weak convergence of symmetric diffusion processes. (English summary) **99e:60175**
Ma, Zhi-Ming (*with* Röckner, Michael; Zhang, Tu Sheng) Approximation of arbitrary Dirichlet processes by Markov chains. (English and French summaries) **99c:60160**
Mania, M. *see* **Chitashvili, R., 99e:60183**
Metz, Volker Shorted operators: an application in potential theory. (English summary) **99c:31018**
Mosco, Umberto Variational fractals. **99m:28023**
— *see also* **Jost, Jürgen; et al., 99e:31002**
Mück, Stefan Semilinear stochastic equations for symmetric diffusions. (English summary) **99a:60062**
Notarantonio, Lino Extremal properties of the first eigenvalue of Schrödinger-type operators. (English summary) **99g:35094**
Ôkura, Hiroyuki A new approach to the skew product of symmetric Markov processes. (English summary) **99h:60148**
Osada, Hirofumi Interacting Brownian motions with measurable potentials. **99g:60191**
Oshima, Yôichi On the recurrence of some time inhomogeneous Markov processes. (English summary) **99a:60079**
Popescu, Emil[2] Exceptional sets and capacities in functional Dirichlet spaces. (English and Romanian summaries) (*see* **99i:00014**)
Röckner, Michael *see* **Ma, Zhi-Ming; et al., 99c:60160**; **Jost, Jürgen; et al., 99e:31002** *and* **Albeverio, Sergio; et al., 99f:58219**
Rothaus, Oscar S. *see* **Gross, Leonard, 99i:47074**
Schmuckenschläger, Michael Martingales, Poincaré type inequalities, and deviation inequalities. (English summary) **99h:60037**
Stannat, Wilhelm Dirichlet forms and Markov processes: a generalized framework including both elliptic and parabolic cases. (English summary) **99c:60162**
Sturm, Karl-Theodor How to construct diffusion processes on metric spaces. (English summary) **99c:60175**
— *see also* **Jost, Jürgen; et al., 99e:31002**
Sun, Wei[3] Weak convergence of Dirichlet processes. (English summary) **99d:60083**
Takeda, Masayoshi Dirichlet forms and symmetric Markov processes (recent topics). (Japanese) **99c:60163**
Uemura, Toshihiro *see* **Kuwae, Kazuhiro, 99e:60175** *and* **99e:60176**
Wu, Zhi Jian[1] (*with* Yang, Li Ming) Multipliers between Dirichlet spaces. **99j:47048**
Yang, Li Ming *see* **Wu, Zhi Jian[1], 99j:47048**
Ying, Jiangang The Feynman-Kac formula for symmetric Markov processes. (English summary) **99c:60161**
— Dirichlet forms perturbated by additive functionals of extended Kato class. **99e:60173**
— Strong subordination of symmetric Dirichlet forms. (English summary) **99c:60165**
— Remarks on h-transform and drift. (English summary) **99k:60196**
Yun, Yong Sik *see* **Kim, Dae Hong; et al., 99b:60129**
Zhang, Tu Sheng *see* **Ma, Zhi-Ming; et al., 99c:60160** *and* **Albeverio, Sergio, 99f:60077**

31C35 Martin boundary theory [see also 60J50]

Damek, Ewa Pointwise estimates for the Poisson kernel on NA groups by the Ancona method. (English and French summaries) **99d:31007**
Zhang, Yiping On the thinness of non-tangential sets. (English summary) **99h:31015**

Items with secondary classifications in 31C35

Aikawa, Hiroaki Norm estimate of Green operator, perturbation of Green function and integrability of superharmonic functions. **99m:35042**
— Semibounded perturbation of Green function in an NTA domain. (English summary) **99c:31007**
Arai, Hitoshi Complex analysis in several variables and harmonic analysis. (Japanese) **99k:32022**
Gustafsson, Björn (*with* Sakai, Makoto; Shapiro, Harold S.) On domains in which harmonic functions satisfy generalized mean value properties. (English summary)

99b:31002
Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundaries of finite sheet unbounded covering surfaces. (Japanese) (*see* **99a:00036**)
Kerov, Sergei (*with* Okun′kov, Andreĭ; Olshanskiĭ, Grigoriĭ) The boundary of the Young graph with Jack edge multiplicities. **99f:05120**
Kurkova, I. A. (*with* Malyshev, V. A.) Martin boundary and elliptic curves. (English summary) **99h:60149**
Malyshev, V. A. *see* **Kurkova, I. A., 99h:60149**
Masaoka, Hiroaki (*with* Segawa, Shigeo) Harmonic dimension of covering surfaces and minimal fine neighborhood. **99g:30054**
— *see also* **Jin, Naondo; et al.,** (**99a:00036**)
Nakai, Mitsuru (*with* Tada, Toshimasa) Picard principle for negative planar potentials. **99d:31001**
Neretin, Yurii A. Hinges and the Study-Semple-Satake-Furstenberg-De Concini-Procesi-Oshima boundary. (English summary) **99g:32060**
Okun′kov, Andreĭ *see* **Kerov, Sergei; et al., 99f:05120**
Olshanskiĭ, Grigoriĭ *see* **Kerov, Sergei; et al., 99f:05120**
Sakai, Makoto *see* **Gustafsson, Björn; et al., 99b:31002**
Segawa, Shigeo *see* **Masaoka, Hiroaki, 99g:30054** *and* **Jin, Naondo; et al.,** (**99a:00036**)
Shapiro, Harold S. *see* **Gustafsson, Björn; et al., 99b:31002**
Tada, Toshimasa *see* **Nakai, Mitsuru, 99d:31001**

31C40 Fine potential theory

Items with secondary classifications in 31C40

Lundh, Torbjörn Discrete groups and thin sets. (English summary) **99h:31005**
Sarana, O. A. *see* **Tamrazov, Promarz, 99c:31003**
Tamrazov, Promarz (*with* Sarana, O. A.) Contour-solid properties of finely hypoharmonic functions. (Russian. English and Ukrainian summaries) **99c:31003**

31C45 Other generalizations (nonlinear potential theory, etc.)

Bel Hadj Rhouma, Nadra (*with* Mosbah, Mahel) Problème de Dirichlet relatif à une perturbation non lineaire des espaces harmoniques. (English summary) [Dirichlet problem for a nonlinear perturbation of harmonic spaces] **99j:31015**
Kilpeläinen, Tero A remark on the uniqueness of quasi continuous functions. (English summary) **99j:31016**
Mosbah, Mahel *see* **Bel Hadj Rhouma, Nadra, 99j:31015**
Shimomura, Tetsu Continuity properties and exponential integrability for Riesz potentials of functions in Orlicz classes. (*see* **99a:00036**)
Sjödin, Tord Thinness in non-linear potential theory for non-isotropic Sobolev spaces. (English summary) **99h:31016**

Items with secondary classifications in 31C45

Çınar, İnan The Hardy-Littlewood-Sobolev inequality for non-isotropic Riesz potentials. (English and Turkish summaries) **99f:42031**
Dal Maso, Gianni (*with* Skrypnik, Igor V.) Capacity theory for monotone operators. (English summary) **99c:31016**
Heinonen, Juha (*with* Holopainen, Ilkka) Quasiregular maps on Carnot groups. (English summary) **99i:30037**
Holopainen, Ilkka *see* **Heinonen, Juha, 99i:30037**
Markina, I. G. (*with* Vodop′yanov, S. K.) Fundamentals of the nonlinear potential theory for subelliptic equations. II. (English summary) **99c:35032**
Ono, Takayori On solutions of quasi-linear partial differential equations $-\mathrm{div}\mathscr{A}(x,\nabla u)+\mathscr{B}(x,u)=0$. **99i:35038**
Skrypnik, Igor V. *see* **Dal Maso, Gianni, 99c:31016**
Vodop′yanov, S. K. *see* **Markina, I. G., 99c:35032**

31C99 None of the above, but in this section

Bendito, E. (*with* Carmona, Angeles; Encinas, A. M.) Some applications of potential theory. (Spanish) (*see* **99d:00018**)
Carmona, Angeles *see* **Bendito, E.; et al.,** (**99d:00018**)
Encinas, A. M. *see* **Bendito, E.; et al.,** (**99d:00018**)
Lions, Jacques-Louis Les travaux de Deny en théorie du potentiel. [The works of Deny in potential theory] (*see* **99f:00034**)
Meskhi, A. Two-weight inequalities for potentials on homogeneous groups. (English summary)
Metz, Volker Shorted operators: an application in potential theory. (English summary) **99c:31018**
Qiu, Shu Xi The fine continuity for complex generalized weights. (English and Chinese summaries) **99g:31013**
Saloff-Coste, Laurent Inequalities for p-superharmonic functions on networks. (English summary) **99b:31009**
Schiffmann, Gérard Frontières de Furstenberg et formules de Poisson sur un groupe de Lie semi-simple (d'après Harry Furstenberg) [MR **31** #3982]. [Furstenberg boundaries and Poisson formulas on a semisimple Lie group (after Harry Furstenberg)] (*see* **99f:00040**)

Items with secondary classifications in 31C99

Ancona, Alano A note on the Rellich formula in Lipschitz domains. (English summary) **99d:35037**
Bass, Richard F. Diffusions on the Sierpinski carpet. (English summary) **99c:60176**
Deny, Jacques Les deux aspects de la théorie du potentiel. [The two aspects of potential theory] (*see* **99f:00036**)
Lang, Reinhard On some connections between potential theory and excursions of reflecting Brownian motion. (English summary) **99m:60114**
Lions, Jacques-Louis Espaces de Beppo Levi et quelques applications. [Spaces of Beppo Levi and some applications] (*see* **99f:00035**)

31D05 Axiomatic potential theory

Anandam, Victor Positive harmonic singularity at infinity. (English summary) **99k:31013**
Bel Hadj Rhouma, Nadra (*with* Boukricha, Abderrahman; Mosbah, Mahel) Perturbations et espaces harmoniques non linéaires. (English summary) [Perturbations and nonlinear harmonic spaces] **99f:31014**
Beznea, Lucian (*with* Boboc, Nicu) Balayages on excessive measures, their representation and the quasi-Lindelöf property. (English summary) **99b:31010**
Boboc, Nicu (*with* Bucur, Gheorghe) Potential theory on ordered sets. (English summary) **99m:31018**
— *see also* **Beznea, Lucian, 99b:31010**
Boukricha, Abderrahman *see* **Bel Hadj Rhouma, Nadra; et al., 99f:31014**
Bucur, Gheorghe *see* **Boboc, Nicu, 99m:31018**
El Kadiri, Mohamed Sur la représentation intégrale en théorie axiomatique des fonctions biharmoniques. [Integral representation of biharmonic functions in axiomatic theory] **99j:31017**
Knöpfel, Holger The restricted mean value property for sub-Laplacians. **99b:31011**
Mosbah, Mahel *see* **Bel Hadj Rhouma, Nadra; et al., 99f:31014**
Popa, Liliana Measures of representation on a standard H-cone. (English summary) **99g:31014**
Popescu, Emil[2] An extension of Meyer's theorem concerning the subordination of sub-Markovian resolvents. **99j:31018**

Items with secondary classifications in 31D05

Anandam, Victor Bipotential elliptic differential operators. (English summary) **99f:35031**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Elliptic diffusions on infinite products. (English summary) **99k:58173**
Boboc, Nicu (*with* Bucur, Gheorghe) Characterization of Dirichlet forms by their excessive and co-excessive elements. (English summary) **99f:31013**
Bucur, Gheorghe *see* **Boboc, Nicu, 99f:31013**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 99k:58173**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Begehr, Heinrich G. W. (*with* Dzhuraev, Abdukhamid Dzhuraevich) ★ An introduction to several complex variables and partial differential equations. (English summary) **99g:32001**

Dzhuraev, Abdukhamid Dzhuraevich *see* **Begehr, Heinrich G. W., 99g:32001**

Kawamata, Yūjirō The development and future prospects of the theory of complex manifolds. (Japanese)

Kim, Kang-Tae (*with* Krantz, Steven G.) A crash course in the function theory of several complex variables. (English summary) **99g:32002**

Krantz, Steven G. *see* **Kim, Kang-Tae, 99g:32002**

32–02 Research exposition (monographs, survey articles)

(King, James R.) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**

(Koblitz, Neal) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**

Manin, Yuriĭ Ivanovich ★ Gauge field theory and complex geometry. **99e:32001**

(Merkulov, Sergei) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**

Items with secondary classifications in 32–02

Mihalache, Nicolae Topological results in analytic convexity. **99m:32015**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

(Brieskorn, Egbert) *see* **Greuel, Gert-Martin, 99m:01061a**

(Cartan, Henri) *see* **Hirzebruch, Friedrich, 99k:01059a** *and* **99k:01059b**

Greuel, Gert-Martin Some aspects of Brieskorn's mathematical work. **99m:01061a**

Hirzebruch, Friedrich Learning complex analysis in Münster-Paris, Zürich and Princeton from 1945 to 1953. **99k:01059a**

— Learning complex analysis in Münster-Paris, Zürich and Princeton from 1945 to 1953. **99k:01059b**

Houzel, Christian D'une variable à plusieurs variables complexes: les fonctions abéliennes. [From one to several complex variables: abelian functions] **99f:01014**

(Kowalski-Glikman, Jerzy) *see* **Maurin, Krzysztof, 99g:00007**

Maurin, Krzysztof ★ The Riemann legacy. (English summary) **99g:00007**

Remmert, Reinhold From Riemann surfaces to complex spaces. (English and French summaries) **99j:01013**

32–06 Proceedings, conferences, collections, etc.

(Chirka, E. M.) *see* **Complex analysis and applications, 99h:32001**

(Chollet, Anne-Marie) *see* **Complex analysis and applications, 99h:32001**

(Dwilewicz, Roman) *see* **Complex analysis and applications, 99h:32001**

(Jacobowitz, Howard) *see* **Complex analysis and applications, 99h:32001**

(Kim, Kang-Tae) *see* **Complex geometric analysis in Pohang, 99e:32002**

(Krantz, Steven G.) *see* **Complex geometric analysis in Pohang, 99e:32002**

(Siciak, Józef) *see* **Complex analysis and applications, 99h:32001**

(Yau, Shing-Tung) *see* **Mirror symmetry, 99f:32002**

Items listed otherwise than by author

Complex analysis and applications ★ Complex analysis and applications. **99h:32001**

Complex geometric analysis in Pohang ★ Complex geometric analysis in Pohang. **99e:32002**

Conference:

Complex Analysis and Applications ★ Complex analysis and applications. **99h:32001**

Several Complex Variables ★ Complex geometric analysis in Pohang. **99e:32002**

Contemporary Mathematics ★ Complex geometric analysis in Pohang. **99e:32002**

CR geometry and isolated singularities ★ CR geometry to koritsu tokuiten. [CR geometry and isolated singularities] **99f:32001**

Mirror symmetry ★ Mirror symmetry. I. **99f:32002**

Pohang ★ Complex geometric analysis in Pohang. **99e:32002**

Singularities and complex analytic geometry ★ Tokuiten to fukuso kaiseki kika. [Singularities and complex analytic geometry] **99h:32002**

Symposium:

CR Geometry and Isolated Singularities ★ CR geometry to koritsu tokuiten. [CR geometry and isolated singularities] **99f:32001**

Singularities and Complex Analytic Geometry ★ Tokuiten to fukuso kaiseki kika. [Singularities and complex analytic geometry] **99h:32002**

Warsaw ★ Complex analysis and applications. **99h:32001**

Items with secondary classifications in 32–06

(Arnol'd, Vladimir Igorevich) *see* **Singularities, 99e:00031**

Berenstein, Carlos A. (*with* Ebenfelt, Peter; Gindikin, S. G.; Helgason, Sigurdur; Tumanov, Alexander) ★ Integral geometry, Radon transforms and complex analysis. **99c:00011**

(Brieskorn, Egbert) *see* **Singularities, 99e:00031**

(Casadio Tarabusi, Enrico) *see* **Berenstein, Carlos A.; et al., 99c:00011**

(Coen, Salvatore) *see* **Seminar: Geometry, 99b:00019**

(Deninger, Christopher) *see* **Series of the Mathematical Institute of the University of Münster, Series 3, 99b:00011**

Ebenfelt, Peter *see* **Berenstein, Carlos A.; et al., 99c:00011**

Gindikin, S. G. *see* **Berenstein, Carlos A.; et al., 99c:00011**

(Greuel, Gert-Martin) *see* **Singularities, 99e:00031**

Helgason, Sigurdur *see* **Berenstein, Carlos A.; et al., 99c:00011**

(Hilgert, Joachim) *see* **Problems: Positivity in Lie theory, 99f:22001**

(Jakubczyk, Bronisław) *see* **Singularities Symposium—Łojasiewicz 70, 99i:00035**

(Kashiwara, Masaki) *see* **Topological field theory, primitive forms and related topics, 99e:00029**

(Kojima, Sadayoshi) *see* **Topology and Teichmüller spaces, 99g:00051**

(Lawson, Jimmie D.) *see* **Problems: Positivity in Lie theory, 99f:22001**

(Łojasiewicz, Stanisław) *see* **Singularities Symposium—Łojasiewicz 70, 99i:00035**

(Matsumoto, Yukio) *see* **Topology and Teichmüller spaces, 99g:00051**

(Matsuo, Atsushi) *see* **Topological field theory, primitive forms and related topics, 99e:00029**

(Neeb, Karl-Hermann) *see* **Problems: Positivity in Lie theory, 99f:22001**

(Pawłucki, Wiesław) *see* **Singularities Symposium—Łojasiewicz 70, 99i:00035**

(Phong, Duong H.) *see* **Mirror symmetry, 99i:14003**

(Picardello, M. A.) *see* **Berenstein, Carlos A.; et al., 99c:00011**

(Saito, Kyoji) *see* **Topological field theory, primitive forms and related topics, 99e:00029** *and* **Topology and Teichmüller spaces, 99g:00051**

(Satake, Ikuo) *see* **Topological field theory, primitive forms and related topics, 99e:00029**

(Seppälä, Mika) *see* **Topology and Teichmüller spaces, 99g:00051**

(Stasica, Jacek) *see* **Singularities Symposium—Łojasiewicz 70, 99i:00035**

(Steenbrink, Joseph H. M.) *see* **Singularities, 99e:00031**

Tumanov, Alexander *see* **Berenstein, Carlos A.; et al., 99c:00011**

(Vinberg, Ernest B.) *see* **Problems: Positivity in Lie theory, 99f:22001**

(Vinet, Luc) *see* **Mirror symmetry, 99i:14003**

(Yau, Shing-Tung) *see* **Mirror symmetry, 99i:14003**

(Zampieri, Gaetano) *see* **Berenstein, Carlos A.; et al., 99c:00011**

Items listed otherwise than by author

Birthday:

Łojasiewicz, Stanisław ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Bologna ★ Seminari di Geometria. 1996–1997. [Geometry Seminars. 1996–1997] **99b:00019**

Conference:

Brieskorn, Egbert V. ★ Singularities. **99e:00031**

Complex Geometry and Mirror Symmetry ★ Mirror symmetry. III. **99i:14003**

Exact WKB analysis and Fourier analysis in the complex domain ★ Kanzen WKB kaiseki to fukuso Fūrie kaiseki. [Exact WKB analysis and Fourier analysis in the complex domain] **99a:00026**

Festschrift:

Brieskorn, Egbert V. ★ Singularities. **99e:00031**

Łojasiewicz, Stanisław ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Katinkulta ★ Topology and Teichmüller spaces. **99g:00051**

Kraków ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Kyoto ★ Topological field theory, primitive forms and related topics. **99e:00029**

Mirror symmetry ★ Mirror symmetry. III. **99i:14003**

Montreal, PQ ★ Mirror symmetry. III. **99i:14003**

Oberwolfach ★ Singularities. **99e:00031**

Problems:

Positivity in Lie theory ★ Positivity in Lie theory: open problems. **99f:22001**

Progress in Mathematics ★ Topological field theory, primitive forms and related topics. **99e:00029**

— ★ Singularities. **99e:00031**

Research on prehomogeneous vector spaces ★ Gai kinshitsu bekutoru kūkan no kenkyū. [Research on prehomogeneous vector spaces] **99a:11006**

Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 22. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 22] **99b:00011**

Seminar:

Geometry ★ Seminari di Geometria. 1996–1997. [Geometry Seminars. 1996–1997] **99b:00019**

Singularities and Geometry ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Series of the Mathematical Institute of the University of Münster, Series 3 ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 22. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 22] **99b:00011**

Singularities ★ Singularities. **99e:00031**

Singularities Symposium—Łojasiewicz 70 ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Symposium:

Exact WKB Analysis and Fourier Analysis in the Complex Domain ★ Kanzen WKB kaiseki to fukuso Fūrie kaiseki. [Exact WKB analysis and Fourier analysis in the complex domain] **99a:00026**

Research on Prehomogeneous Vector Spaces ★ Gai kinshitsu bekutoru kūkan no kenkyū. [Research on prehomogeneous vector spaces] **99a:11006**

Singularities ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

Topological Field Theory, Primitive Forms and Related Topics ★ Topological field theory, primitive forms and related topics. **99e:00029**

— ★ Topological field theory, primitive forms and related topics. **99e:00029**

Topology and Teichmüller Spaces ★ Topology and Teichmüller spaces. **99g:00051**

Topology of Real Singularities and Related Topics ★ Jitsu tokuiten no toporojii to sono kanren wadai. [Topology of real singularities and related topics] **99a:00050**

Topological field theory, primitive forms and related topics ★ Topological field theory, primitive forms and related topics. **99e:00029**

Topology and Teichmüller spaces ★ Topology and Teichmüller spaces. **99g:00051**

Topology of real singularities and related topics ★ Jitsu tokuiten no toporojii to sono kanren wadai. [Topology of real singularities and related topics] **99a:00050**

Warsaw ★ Singularities Symposium—Łojasiewicz 70. **99i:00035**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Lê Hai Khôi *see* **Morimoto, Mitsuo, 99e:32003**

Morimoto, Mitsuo (*with* Lê Hai Khôi) Representation of harmonic functions in the Lie ball by Dirichlet series. (English summary) **99e:32003**

Reich, Ludwig On the local distribution of analytic contractions in $\mathbf{C}^3$ with respect to embeddability. **99m:32001**

Items with secondary classifications in 32A05

Lê Hai Khôi Convolution operators on holomorphic Dirichlet series. (English summary) **99f:32010**

Volkmer, Hans Expansions of analytic functions in spherical harmonics. (English summary) **99b:33026**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Isaev, A. V. (*with* Krantz, Steven G.) Hyperbolic Reinhardt domains in $\mathbf{C}^2$ with noncompact automorphism group. (English summary) **99h:32003**

Krantz, Steven G. *see* **Isaev, A. V., 99h:32003**

Liu, Tai Shun (*with* Zhang, Wen Jun) R-W polynomials and existence of inner functions on classical domains. (Chinese. English and Chinese summaries) **99h:32004**

Martineau, André Théorèmes sur le prolongement analytique du type "edge of the wedge theorem". ["Edge of the wedge"-type analytic extension theorems] (*see* **99f:00042**)

Ronkin, L. I. Holomorphic periodic functions and periodic divisors. (Russian. English, Russian and Ukrainian summaries) **99b:32001**

Zhang, Wen Jun *see* **Liu, Tai Shun, 99h:32004**

Items with secondary classifications in 32A07

Bedford, Eric (*with* Pinchuk, S. I.) Domains in $\mathbf{C}^2$ with noncompact automorphism groups. (English summary) **99e:32058**

Bekolle, David (*with* Temgoua Kagou, Anatole) Molecular decompositions and interpolation. (English summary) **99e:32035**

Carmichael, Richard D. (*with* Pilipović, Stevan S.) Cauchy and Poisson kernels for tubes. (English summary) **99f:46052**

Drozhzhinov, Yu. N. (*with* Zav'yalov, B. I.) Local Tauberian theorems in spaces of generalized functions associated with cones, and their applications. (Russian. Russian summary) **99a:46075**

Pilipović, Stevan S. *see* **Carmichael, Richard D., 99f:46052**

Pinchuk, S. I. *see* **Bedford, Eric, 99e:32058**

Spiro, Andrea F. Classification of proper holomorphic maps between Reinhardt domains in $\mathbf{C}^2$. **99h:32030**

Temgoua Kagou, Anatole *see* **Bekolle, David, 99e:32035**

Wang, An The Einstein-Kähler metrics on a class of Reinhardt domains and their curvatures. (Chinese. English and Chinese summaries) **99a:32041**

Zav'yalov, B. I. *see* **Drozhzhinov, Yu. N., 99a:46075**

Zhou, Xiang Yu A proof of the extended future tube conjecture. (Russian. Russian summary) **99i:32017**

Zwonek, Włodzimierz On hyperbolicity of pseudoconvex Reinhardt domains. (English summary) **99m:32027**

32A10 Holomorphic functions

Dairbekov, N. S. On the stability of a class of holomorphic functions in a closed domain. (Russian. Russian summary) **99a:32001**

Nguyen Thanh Van Separate analyticity and related subjects. (English summary) **99m:32002**

Ronkin, L. I. CR-functions and holomorphic almost periodic functions with an integer finite basis. (Russian. English, Russian and Ukrainian summaries) **99e:32004**

Items with secondary classifications in 32A10

Abate, Marco (*with* Tauraso, Roberto) The Julia-Wolff-Carathéodory theorem(s). (English summary) **99i:32008**

Adachi, Kenzō (*with* Cho, Hong Rae) Lipschitz and BMO extensions of holomorphic functions from subvarieties to a convex domain. (English summary) **99a:32003**

Cho, Hong Rae L^p and H^p extensions of holomorphic functions from subvarieties. **99j:32011**

— *see also* **Adachi, Kenzō, 99a:32003**

Diederich, Klas (*with* Mazzilli, Emmanuel) Extension and restriction of holomorphic functions. (English and French summaries) **99d:32012**

Mazzilli, Emmanuel *see* **Diederich, Klas, 99d:32012**

Neretin, Yurii A. Restriction of functions holomorphic in a domain to curves lying on the boundary of the domain, and discrete $SL_2(\mathbf{R})$-spectra. (Russian. Russian summary) **99h:43016**

Ronkin, L. I. Holomorphic periodic functions and periodic divisors. (Russian. English, Russian and Ukrainian summaries) **99b:32001**

Stankiewicz, Jan Functions of two complex variables regular in a halfspace. (English summary) **99g:32006**

Tauraso, Roberto *see* **Abate, Marco, 99i:32008**

32A15 Entire functions

Korobeĭnik, Yu. F. On a relationship between the maximum modulus and Taylor coefficients of entire functions of several complex variables. (Russian. Russian summary) **99j:32001**

Logvinenko, Vladimir (*with* Russakovskiĭ, A. M.) Quasi-sampling sets for analytic functions in a cone. (English summary) **99m:32003**

Maergoĭz, L. S. Extremal properties of entire functions in Wiener classes and their applications. (Russian) **99i:32001**

Ronkin, L. I. Periodic algebraic divisors. (Russian. English, Russian and Ukrainian summaries) **99b:32002**

Russakovskiĭ, A. M. *see* **Logvinenko, Vladimir, 99m:32003**

Items with secondary classifications in 32A15

Behnam, Hazem Shaba (*with* Srivastava, G. S.) A note on growth of entire functions of two complex variables having zero order. (English summary) **99h:32005**

Gorni, Gianluca (*with* Zampieri, Gaetano) On cubic-linear polynomial mappings. (English summary) **99e:14016**

Ha Huy Bang The Paley-Wiener-Schwartz theorem for nonconvex domains. **99m:46104**

Ronkin, L. I. Holomorphic periodic functions and periodic divisors. (Russian. English, Russian and Ukrainian summaries) **99b:32001**

Srivastava, G. S. *see* **Behnam, Hazem Shaba, 99h:32005**

Zampieri, Gaetano *see* **Gorni, Gianluca, 99e:14016**

32A17 Special families of functions (e.g. normal families)

Zhou, Ze Hua The properties of meromorphic functions of several complex variables. (English summary) **99m:32004**

Items with secondary classifications in 32A17

Roper, Kevin A. (*with* Suffridge, Ted J.) Convexity properties of holomorphic mappings in $\mathbf{C}^n$. (English summary) **99h:32027**

Suffridge, Ted J. *see* **Roper, Kevin A., 99h:32027**

32A20 Meromorphic functions

Items with secondary classifications in 32A20

Gallo, Angela The generalization of Sokhotski formulas on two complex variables. (English summary) **99c:32001**

Zhou, Ze Hua The properties of meromorphic functions of several complex variables. (English summary) **99m:32004**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Behnam, Hazem Shaba (*with* Srivastava, G. S.) A note on growth of entire functions of two complex variables having zero order. (English summary) **99h:32005**

Choi, U Jin *see* **Rim, Kyung Soo, 99a:32002**

Rim, Kyung Soo (*with* Choi, U Jin) Weighted norm inequalities for $\mathscr{M}$-harmonic conjugate functions. (English summary) **99a:32002**

Ru, Min Nevanlinna theory and its relation with Diophantine approximation. (English summary) **99b:32003**

Srivastava, G. S. *see* **Behnam, Hazem Shaba, 99h:32005**

Items with secondary classifications in 32A22

Korobeĭnik, Yu. F. On a relationship between the maximum modulus and Taylor coefficients of entire functions of several complex variables. (Russian. Russian summary) **99j:32001**

Ronkin, L. I. Periodic algebraic divisors. (Russian. English, Russian and Ukrainian summaries) **99b:32002**

32A25 Integral representation

Adachi, Kenzō (*with* Cho, Hong Rae) Lipschitz and BMO extensions of holomorphic functions from subvarieties to a convex domain. (English summary) **99a:32003**

Barkatou, Moulay-Youssef Some applications of a new integral formula for $\overline{\partial}_b$. (English summary) **99m:32005**

— Formules locales de type Martinelli-Bochner-Koppelman sur des variétés CR. (English summary) [Local Martinelli-Bochner-Koppelman formulas on CR manifolds] **99k:32001**

Cho, Hong Rae *see* **Adachi, Kenzō, 99a:32003**

Cumenge, Anne Estimées Lipschitz optimales dans les convexes de type fini. (English and French summaries) [Optimal Lipschitz estimates on convex domains of finite type] **99i:32002**

Fujita, Keiko (*with* Morimoto, Mitsuo) Spherical Fourier-Borel transformation. **99k:32002**

Gallo, Angela The generalization of Sokhotski formulas on two complex variables. (English summary) **99c:32001**

Hatziafratis, Telemachos On a class of $\overline{\partial}$-equations without solutions. (English summary) **99k:32003**

Li, Lunhuan The singular integral of an analytic polyhedron. (English and Chinese summaries) **99k:32004**

Lin, Liang Yu (*with* Yao, Guo Xin; Ruan, Qi Hua) Bochner-Henkin formulas on a bounded domain. (Chinese. English and Chinese summaries) **99k:32005**

Ma, Zhong Tai Boundary behaviour of Bochner-Martinelli type integral on Stein manifold. (English summary) **99m:32006**

— (*with* Zhong, Tong De) Integral representations and extension theorems for solutions of Cauchy-Riemann equations. (Chinese. English and Chinese summaries) **99g:32003**

Morimoto, Mitsuo The Poisson kernel and the Cauchy kernel. **99k:32006**

— An integral formula for holomorphic functions on the Lie ball. (English summary) (*see* **99g:00046**)

— *see also* **Fujita, Keiko, 99k:32002**

Rigat, Stéphane Version explicite du principe fondamental d'Ehrenpreis-Malgrange-Palamodov dans le cas non homogène. (French summary) [Explicit version of the Ehrenpreis-Malgrange-Palamodov fundamental principle in the nonhomogeneous case] **99g:32004**

Rocha-Chávez, R. (*with* Shapiro, M. V.; Sommen, Franciscus) On the singular Bochner-Martinelli integral. (English summary) **99i:32003**
Ruan, Qi Hua *see* **Lin, Liang Yu; et al., 99k:32005**
Shapiro, M. V. *see* **Rocha-Chávez, R.; et al., 99i:32003**
Sommen, Franciscus *see* **Rocha-Chávez, R.; et al., 99i:32003**
Xu, Zhong Yi A generalization of an integral formula for holomorphic functions on Stein manifolds. (Chinese. English and Chinese summaries) **99b:32004**
Yao, Guo Xin *see* **Lin, Liang Yu; et al., 99k:32005**
Zhong, Tong De $\overline{\partial}$-equation on complex manifolds. (English and Chinese summaries) **99i:32004**
— Koppelman-Leray-Norguet formula for a local q-concave wedge in Stein manifolds. (English summary) **99i:32005**
— Homotopy formulas and $\overline{\partial}$-equations on q-convex domains in complex manifolds. (Chinese. English and Chinese summaries) **99d:32001**
— *see also* **Ma, Zhong Tai, 99g:32003**

Items with secondary classifications in 32A25

Aizenberg, Lev (*with* Tumanov, Alexander; Vidras, Alekos) The class of holomorphic functions representable by Carleman formula. (English summary) **99j:30040**
Barrett, David E. The Bergman projection on sectorial domains. (English summary) **99b:32036**
Kytmanov, A. M. (*with* Myslivets, S. G.) On the holomorphicity of functions representable by the logarithmic residue formula. (Russian. Russian summary) **99b:32011**
— (*with* Myslivets, S. G.) On an application of the Bochner-Martinelli operator. (English summary) **99b:32012**
Laurent-Thiébaut, C. (*with* Leiterer, J.) The Andreotti-Vesentini separation theorem and global homotopy representation. **99m:32019**
Leiterer, J. *see* **Laurent-Thiébaut, C., 99m:32019**
Myslivets, S. G. *see* **Kytmanov, A. M., 99b:32011** *and* **99b:32012**
Tumanov, Alexander *see* **Aizenberg, Lev; et al., 99j:30040**
Vidras, Alekos *see* **Aizenberg, Lev; et al., 99j:30040**

32A27 Local theory of residues [see also 32C30]

Boyer, Jean-Yves (*with* Hickel, Michel) Une généralisation de la loi de transformation pour les résidus. (English and French summaries) [A generalization of the transformation formula for residues] **99c:32002**
Hickel, Michel *see* **Boyer, Jean-Yves, 99c:32002**
Leray, Jean Résidus. [Residues] (*see* **99f:00037**)
Perotti, Alessandro Multidimensional residues and ideal membership. (English summary) **99e:32005**
Tsikh, A. K. *see* **Zhdanov, O. N., 99k:32007**
Vidras, Alekos (*with* Yger, Alain) On asymptotic approximations of the residual currents. (English summary) **99c:32003**
Yger, Alain *see* **Vidras, Alekos, 99c:32003**
Zhdanov, O. N. (*with* Tsikh, A. K.) Computation of multiple Mellin-Barnes integrals by means of multidimensional residues. (Russian) **99k:32007**

Items with secondary classifications in 32A27

Cheshel', A. A. *see* **Passare, Mikael; et al., 99d:32026**
Dickenstein, Alicia (*with* Sessa, Carmen) Résidus de formes méromorphes et cohomologie modérée. (English summary) [Residues of meromorphic forms and moderate cohomology] **99a:32009**
Henkin, Gennadi (*with* Passare, Mikael) Abelian differentials on singular varieties and variations on a theorem of Lie-Griffiths. (English summary) **99m:32038**
Hodges, Andrew P. The twistor diagram programme. (English summary) **99e:81085**
Kytmanov, A. M. (*with* Myslivets, S. G.) On the holomorphicity of functions representable by the logarithmic residue formula. (Russian. Russian summary) **99b:32011**
Myslivets, S. G. *see* **Kytmanov, A. M., 99b:32011**
Passare, Mikael (*with* Tsikh, A. K.; Cheshel', A. A.) Multiple Mellin-Barnes integrals as periods on Calabi-Yau manifolds with several moduli. (Russian. English and Russian summaries) **99d:32026**
— *see also* **Henkin, Gennadi, 99m:32038**
Rigat, Stéphane Version explicite du principe fondamental d'Ehrenpreis-Malgrange-Palamodov dans le cas non homogène. (French summary) [Explicit version of the Ehrenpreis-Malgrange-Palamodov fundamental principle in the nonhomogeneous case] **99g:32004**
Sessa, Carmen *see* **Dickenstein, Alicia, 99a:32009**
Tsikh, A. K. *see* **Passare, Mikael; et al., 99d:32026**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

Choe, Boo Rim (*with* Lee, Young Joo) On $\mathcal{M}$-harmonic Bloch functions and their Carleson measures. (English summary) **99i:32006**
Huang, Sha A nonlinear boundary value problem for analytic functions of several complex variables. (Chinese. English and Chinese summaries) **99a:32004**
Huang, Ying Ping Biholomorphic mappings of several complex variables. (Chinese. English and Chinese summaries) **99j:32002**
Kohr, Gabriela Some sufficient conditions of starlikeness for mappings of C^1 class. (English summary) **99g:32005**
Lee, Young Joo *see* **Choe, Boo Rim, 99i:32006**
Stankiewicz, Jan Functions of two complex variables regular in a halfspace. (English summary) **99g:32006**
Tsurumi, Kazuyuki Applications of the Schwarz lemma in $\mathbf{C}^n$. (Japanese) (*see* **99a:00033**)

Items with secondary classifications in 32A30

Abate, Marco (*with* Tauraso, Roberto) The Julia-Wolff-Carathéodory theorem(s). (English summary) **99i:32008**
Begehr, Heinrich G. W. Boundary value problems in $\mathbf{C}$ and $\mathbf{C}^n$. **99i:30059**
Bracci, Filippo Common fixed points of commuting holomorphic maps in the unit ball of $\mathbf{C}^n$. (English summary) **99f:32034**
Curt, Paula A univalence criterion for holomorphic mappings in $\mathbf{C}^n$. **99b:32031**
— Some classes of differential subordinations in several complex variables implying functions with positive real part. I. **99b:32032**
— Some classes of differential subordinations in several complex variables implying functions with positive real parts. II. **99b:32033**
Gong, Sheng (*with* Yu, Qihuang; Zheng, Xuean) The Schwarzian derivative in several complex variables. II. (English summary) **99b:32035**
Kohr, Gabriela Certain partial differential inequalities and applications for holomorphic mappings defined on the unit ball of $\mathbf{C}^n$. (English summary) **99a:32029**
— On some best bounds for coefficients of several subclasses of biholomorphic mappings in $\mathbf{C}^n$. (English summary) **99k:32038**
Korobeĭnik, Yu. F. On a relationship between the maximum modulus and Taylor coefficients of entire functions of several complex variables. (Russian. Russian summary) **99j:32001**
Ortega-Cerdà, Joaquim Zero sets of holomorphic functions in the bidisk. (English summary) **99g:32007**
Roper, Kevin A. (*with* Suffridge, Ted J.) Convexity properties of holomorphic mappings in $\mathbf{C}^n$. (English summary) **99h:32027**
Suffridge, Ted J. *see* **Roper, Kevin A., 99h:32027**
Tauraso, Roberto *see* **Abate, Marco, 99i:32008**
Tutschke, Wolfgang ★ Inhomogeneous equations in complex analysis. **99h:35004**
Yu, Qihuang *see* **Gong, Sheng; et al., 99b:32035**
Zheng, Xuean *see* **Gong, Sheng; et al., 99b:32035**

32A35 H^p-spaces [see also 32M15, 42B30, 43A85, 46J15]

Bruna, Joaquim (*with* Ortega, Joaquín Ma.) Interpolation along manifolds in Hardy-Sobolev spaces. (English summary) **99j:32003**
Cohn, William S. The Bergman projection and vector-valued Hardy spaces. **99b:32005**
Gao, Jin Shou D^p multipliers on bounded symmetric domains. (Chinese. English and Chinese summaries) **99f:32003**
Haslinger, Friedrich Bergman and Hardy spaces on model domains. **99f:32004**
Hu, Zhangjian Carleson measures and the fractional derivatives of holomorphic functions in the unit ball of $\mathbf{C}^n$. (English summary) **99j:32004**
Ortega, Joaquín Ma. *see* **Bruna, Joaquim, 99j:32003**
Yao, Bi Yun Some properties of D^p spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **99f:32005**

Items with secondary classifications in 32A35

Aizenberg, Lev (*with* Tumanov, Alexander; Vidras, Alekos) The class of holomorphic functions representable by Carleman formula. (English summary) **99j:30040**
Alpay, Daniel (*with* Bolotnikov, Vladimir; Dijksma, Aad; Rovnyak, James; Sadosky, Cora) Espaces de Hilbert inclus contractivement dans l'espace de Hardy du bi-disque. (English and French summaries) [Hilbert spaces contractively included in the Hardy space of the bidisk] **99g:46029**
— (*with* Bolotnikov, Vladimir) On the tangential interpolation problem for matrix-valued H_2-functions of two variables. (English summary) **99i:47024**
Arutyunyan, A. V. On a characterization of anisotropic spaces of functions holomorphic in the polydisk. (Russian. English and Russian summaries) **99f:46030**
— *see also* **Shamoyan, F. A., 99f:47035**
Bakonyi, Mihály (*with* Timotin, Dan) On a conjecture of Cotlar and Sadosky on multidimensional Hankel operators. (English and French summaries) **99b:47032**
Bertolo, Nativi Viana Pereira Some aspects of generalizations of Cauchy-Riemann equations. (Portuguese. Portuguese summary)
Boggess, Al The holomorphic extension of H^p-CR functions on tube submanifolds. (English summary) **99h:32012**
Bolotnikov, Vladimir *see* **Alpay, Daniel; et al., 99g:46029** *and* **99i:47024**
Cheng, Raymond (*with* Klotz, L.) Hardy spaces on products of halfplanes and prediction of homogeneous random fields. (English summary) **99c:42036**
Dijksma, Aad *see* **Alpay, Daniel; et al., 99g:46029**
Ding, Xuan Hao Joint unitary equivalence of coordinate function tuples for Bergman spaces of functions of several complex variables. (Chinese. English and Chinese summaries) **99b:47033**
Dostanić, Milutin R. *see* **Pavlović, Miroslav, 99h:46038**
Fàbrega, Joan *see* **Ortega, Joaquín Ma., 99a:46061**
Fedorov, Sergeĭ Igor'evich On harmonic analysis in a multiply connected domain and character-automorphic Hardy spaces. (Russian) **99d:32046**
Hornor, William E. (*with* Jamison, James E.) Isometrically equivalent composition operators. (English summary) **99b:47041**
Jamison, James E. *see* **Hornor, William E., 99b:47041**
Klotz, L. *see* **Cheng, Raymond, 99c:42036**
Lou, Zeng Jian *see* **Wulan, Hasi, 99k:32009**
Massaneda, Xavier $A^{-\infty}$-interpolation in the ball. (English summary) **99e:32017**
Ortega, Joaquín Ma. (*with* Fàbrega, Joan) Holomorphic Triebel-Lizorkin spaces. (English summary) **99a:46061**
Pavlović, Miroslav (*with* Dostanić, Milutin R.) On the inclusion $H^2(U^n) \subset H^{2n}(B_n)$ and the isoperimetric inequality. (English summary) **99h:46038**
Rovnyak, James *see* **Alpay, Daniel; et al., 99g:46029**
Sadosky, Cora *see* **Alpay, Daniel; et al., 99g:46029**
Shamoyan, F. A. (*with* Arutyunyan, A. V.) Toeplitz operators in the M. M. Dzhrbashyan multidimensional spaces $H^p(\alpha)$. (Russian. English and Russian summaries) **99f:47035**
Symesak, Frédéric Hankel operators on pseudoconvex domains of finite type in $\mathbf{C}^2$. (English summary) **99i:47048**
Timotin, Dan *see* **Bakonyi, Mihály, 99b:47032**
Tumanov, Alexander *see* **Aizenberg, Lev; et al., 99j:30040**

Vidras, Alekos *see* **Aizenberg, Lev; et al., 99j:30040**
Wulan, Hasi (*with* Lou, Zeng Jian) Multiplier transformations of mixed norm spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **99k:32009**
Xiao, Jian Bin Multi-index multipliers of H^p functions on unit hyperspheres. (Chinese. English and Chinese summaries) **99b:46030**

32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [see also 46Exx]

Dubtsov, E. S. Minimal solutions of the Gleason problem. (English summary) **99i:32007**
Henne, Benedikt Classes de Nevanlinna dans certains domaines strictement pseudoconvexes non lisses. (English and French summaries) [Nevanlinna classes in some non-smooth strictly pseudoconvex domains] **99k:32008**
Jevtić, Miroljub A note on BMO and Bloch space of generalized (α, β)-harmonic functions. (English summary) **99d:32002**
Joseph, James E. (*with* Kwack, Myung H.) Families of Bloch functions on higher-dimensional complex spaces. (English summary) **99d:32003**
Kang, Hyeonbae (*with* Koo, Hyungwoon) Carleson measure characterizations of BMOA on pseudoconvex domains. (English summary) **99f:32006**
Koo, Hyungwoon *see* **Kang, Hyeonbae, 99f:32006**
Kwack, Myung H. *see* **Joseph, James E., 99d:32003**
Liang, Xiao Yan Characterizations of Carleson measures on B_n. (Chinese. English and Chinese summaries) **99e:32006**
Lou, Zeng Jian *see* **Wulan, Hasi, 99k:32009**
Nakamura, Yayoi *see* **Tajima, Shinichi, (99h:00034)**
Nguyen Thanh Van Note on doubly systems [doubly orthogonal systems] of Bergman. (English summary) **99f:32007**
Nowak, Maria Bloch space on the unit ball of $\mathbf{C}^n$. (English summary) **99h:32006**
Ortega-Cerdà, Joaquim Zero sets of holomorphic functions in the bidisk. (English summary) **99g:32007**
Tajima, Shinichi (*with* Nakamura, Yayoi) Residue calculations for rational functions using differential operators and Horowitz's algorithm. (Japanese. Japanese summary) (*see* **99h:00034**)
Wulan, Hasi (*with* Lou, Zeng Jian) Multiplier transformations of mixed norm spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **99k:32009**
— Mixed norm space of pluriharmonic functions. (English summary) **99f:32008**
Yang, Weisheng Some characterizations of α-Bloch spaces on the unit ball of $\mathbf{C}^n$. (English summary) **99f:32009**
— Carleson type measure characterization of Q_p spaces. (English summary) **99m:32007**

Items with secondary classifications in 32A37

Askour, Nour eddine (*with* Intissar, Ahmed; Mouayn, Zouhaïr) Espaces de Bargmann généralisés et formules explicites pour leurs noyaux reproduisants. (English and French summaries) [Explicit formulas for reproducing kernels of generalized Bargmann spaces] **99a:46041**
Berndtsson, Bo An inequality for Fourier-Laplace transforms of entire functions, and the existence of exponential frames in Fock space. (English summary) **99d:46059**
Bierstedt, Klaus D. (*with* Bonet, José; Taskinen, Jari) Associated weights and spaces of holomorphic functions. (English summary) **99a:46037**
Bonami, Aline (*with* Bruna, Joaquim; Grellier, Sandrine) On Hardy, BMO and Lipschitz spaces of invariantly harmonic functions in the unit ball. **99g:31008**
Bonet, José *see* **Bierstedt, Klaus D.; et al., 99a:46037**
Bruna, Joaquim *see* **Bonami, Aline; et al., 99g:31008**
Choe, Boo Rim (*with* Lee, Young Joo) On $\mathcal{M}$-harmonic Bloch functions and their Carleson measures. (English summary) **99i:32006**
— (*with* Lee, Young Joo) Pluriharmonic symbols of essentially commuting Toeplitz operators. **99g:47051**
Choi, Ki Seong *see* **Hahn, Kyong Taik, 99b:46027**
Diederich, Klas (*with* Mazzilli, Emmanuel) Extension and restriction of holomorphic functions. (English and French summaries) **99d:32012**
Engliš, Miroslav Invariant operators and the Berezin transform on Cartan domains. (English summary) **99m:47035**
Grellier, Sandrine *see* **Bonami, Aline; et al., 99g:31008**
Hahn, Kyong Taik (*with* Choi, Ki Seong) Weighted Bloch spaces in $\mathbf{C}^n$. (English summary) **99b:46027**
Intissar, Ahmed *see* **Askour, Nour eddine; et al., 99a:46041**
Jevtić, Miroljub Besov spaces on bounded symmetric domains. (English summary) **99b:32048**
Lee, Jaesung On the Berezin transform on D^n. (English summary) **99h:47036**
— The iteration of the Berezin transform in the polydisc. (English summary) **99i:47058**
— Properties of the Berezin transform of bounded functions. (English summary) **99m:47036**
Lee, Young Joo Pluriharmonic symbols of commuting Toeplitz type operators on the weighted Bergman spaces. (English summary) **99b:47035**
— *see also* **Choe, Boo Rim, 99g:47051** *and* **99i:32006**
Li, Chun[2] (*with* Wu, Zhi Jian[1]) Hankel operators on Clifford valued Bergman space. (English summary) **99a:47038**
Li, Song-Ying (*with* Russo, Bernard) Schatten class composition operators on weighted Bergman spaces of bounded symmetric domains. (English summary) **99h:47037**
Mazzilli, Emmanuel *see* **Diederich, Klas, 99d:32012**
Mouayn, Zouhaïr *see* **Askour, Nour eddine; et al., 99a:46041**
Ouyang, Cai Heng (*with* Yang, Weisheng; Zhao, Ruhan) Möbius invariant Q_p spaces associated with the Green's function on the unit ball of $\mathbf{C}^n$. (English summary) **99h:46037**
Russo, Bernard *see* **Li, Song-Ying, 99h:47037**
Stroethoff, Karel Compact Toeplitz operators on Bergman spaces. **99i:47046**
Symesak, Frédéric Hankel operators on pseudoconvex domains of finite type in $\mathbf{C}^2$. (English summary) **99i:47048**
Taskinen, Jari *see* **Bierstedt, Klaus D.; et al., 99a:46037**
Wu, Zhi Jian[1] *see* **Li, Chun[2], 99a:47038**
Yang, Weisheng *see* **Ouyang, Cai Heng; et al., 99h:46037**
Yaroslavtseva, O. V. On multipliers in some anisotropic spaces of analytic functions. (Russian. English and Russian summaries)
Zhao, Ruhan *see* **Ouyang, Cai Heng; et al., 99h:46037**

32A40 Boundary behavior

Abate, Marco (*with* Tauraso, Roberto) The Julia-Wolff-Carathéodory theorem(s). (English summary) **99i:32008**
Di Biase, Fausto (*with* Fischer, Bert) Boundary behaviour of H^p functions on convex domains of finite type in $\mathbf{C}^n$. (English summary) **99h:32007**
Fischer, Bert *see* **Di Biase, Fausto, 99h:32007**
Fourlinnie, Hervé Version Carleman du théorème de l'"edge of the wedge". (English and French summaries) [Carleman version of the "edge of the wedge" theorem] **99k:32010**
Krotov, V. G. A sharp estimate for the boundary behavior of functions from Hardy-Sobolev classes in the critical case. (Russian. Russian summary) **99g:32008**
Neretin, Yurii A. Boundary values of holomorphic functions and some spectral problems for unitary representations. **99i:32009**
Tauraso, Roberto *see* **Abate, Marco, 99i:32008**
Verdoucq, Laurent Valeurs au bord pour les dérivées tangentielles des fonctions de la classe $\mathcal{A}^{k,\alpha}$ dans les domaines de type fini de $\mathbf{C}^2$. (English and French summaries) [Boundary values for tangential derivatives of functions of the class $\mathcal{A}^{k,\alpha}$ in finite-type domains in $\mathbf{C}^2$] **99i:32010**

Items with secondary classifications in 32A40

Carmichael, Richard D. (*with* Pilipović, Stevan S.) The Cauchy and Poisson kernels as ultradifferentiable functions. (English summary) **99c:46039**
Di Biase, Fausto ★ Fatou type theorems. (English summary) **99f:31012**
Pilipović, Stevan S. *see* **Carmichael, Richard D., 99c:46039**

32A45 Hyperfunctions [see also 46F15]

Fujita, Keiko *see* **Morimoto, Mitsuo, 99b:32006**
Lê Hai Khôi Convolution operators on holomorphic Dirichlet series. (English summary) **99f:32010**
Ligocka, Ewa On extensions of the Mittag-Leffler theorem. (English summary) **99e:32007**
Martineau, André Les hyperfonctions de M. Sato. [The hyperfunctions of M. Sato] (*see* **99f:00038**)
Morimoto, Mitsuo (*with* Fujita, Keiko) Conical Fourier-Borel transformations for harmonic functionals on the Lie ball. (English summary) **99b:32006**
Struppa, Daniele C. On the "grouping" phenomenon for holomorphic solutions of infinite order differential equations. **99f:32011**

Items with secondary classifications in 32A45

Carmichael, Richard D. (*with* Pilipović, Stevan S.) Boundary values in ultradistribution spaces. (English summary) **99c:46040**
Eida, Atsuhiko (*with* Pilipović, Stevan S.) On the microlocal decomposition of some classes of hyperfunctions. (English summary) **99m:58178**
Fujita, Keiko (*with* Morimoto, Mitsuo) Spherical Fourier-Borel transformation. **99k:32002**
Kytmanov, A. M. (*with* Tsikh, I. A.) On the holomorphic continuation of CR-hyperfunctions into a fixed domain. (Russian. Russian summary) **99e:32015**
Morimoto, Mitsuo *see* **Fujita, Keiko, 99k:32002**
Pilipović, Stevan S. Microlocal properties of ultradistributions. Composition and kernel type operators. (English summary) **99k:46067**
— *see also* **Carmichael, Richard D., 99c:46040** *and* **Eida, Atsuhiko, 99m:58178**
Stanković, Bogoljub Convergence structures and S-asymptotic behaviour of Fourier hyperfunctions. (English summary) **99k:46068**
Tsikh, I. A. *see* **Kytmanov, A. M., 99e:32015**

32A99 None of the above, but in this section

Items with secondary classifications in 32A99

Beauzamy, Bernard On complex Lee and Yang polynomials. (English summary) **99e:82004**
Hinkkanen, Aimo Schur products of certain polynomials. (English summary) **99b:30004**
Manoharan, A. C. Combinatorics for computing relativistic several complex variable domains. (English summary) **99f:81121**

32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

El Khadiri, Abdelhafed Borne d'invariant métrique pour une famille noethérienne. (English summary) [Bound of an invariant metric for a Noetherian family] **99g:32009**
Malgrange, Bernard Théorème de Frobenius complexe (d'après A. Newlander et L. Nirenberg) [MR **21** #3582]. [Complex Frobenius theorem (after A. Newlander and L. Nirenberg)] (*see* **99f:00036**)

Items with secondary classifications in 32B05

van den Dries, Lou (*with* Speissegger, Patrick) The real field with convergent generalized power series. (English summary) **99a:03036**
Speissegger, Patrick *see* **van den Dries, Lou, 99a:03036**

32B10 Germs of analytic sets

Chądzyński, Jacek (*with* Krasiński, Tadeusz; Tworzewski, Piotr) On the intersection multiplicity of analytic curves in $\mathbf{C}^m$. (English summary) **99a:32005**
Izumi, Shuzo Transcendence measures for subsets of local algebras. **99d:32004**
Krasiński, Tadeusz *see* **Chądzyński, Jacek; et al., 99a:32005**
Skalski, Grzegorz On the Łojasiewicz exponent for a pair of analytic sets. (English and Polish summaries) **99d:32005**
Tworzewski, Piotr *see* **Chądzyński, Jacek; et al., 99a:32005**

Items with secondary classifications in 32B10

van den Dries, Lou (*with* Speissegger, Patrick) The real field with convergent generalized power series. (English summary) **99a:03036**
El Khadiri, Abdelhafed Borne d'invariant métrique pour une famille noethérienne. (English summary) [Bound of an invariant metric for a Noetherian family] **99g:32009**
Gabrielov, A. Frontier and closure of a semi-Pfaffian set. (English summary) **99m:14111**
Speissegger, Patrick *see* **van den Dries, Lou, 99a:03036**

32B15 Analytic subsets of affine space

Cynk, Sławomir Singular set of w-holomorphic functions on quasi-projective algebraic sets. (English summary) **99a:32006**

Items with secondary classifications in 32B15

Alexander, Herbert Hulls of subsets of the torus in $\mathbf{C}^2$. (English and French summaries) **99g:32022**
Izumi, Shuzo Transcendence measures for subsets of local algebras. **99d:32004**

32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

Andradas, C. *see* **Díaz-Cano, A., 99k:32011**
Díaz-Cano, A. (*with* Andradas, C.) Stability index of closed semianalytic set germs. **99k:32011**
Pawłucki, Wiesław Examples of functions $\mathscr{E}^k$-extendable for each k finite, but not $\mathscr{E}^\infty$-extendable. (English summary) **99m:32008**

Items with secondary classifications in 32B20

Orro, Patrice Quelques propriétés de la distance géodésique. (French summary) [Some properties of the geodesic distance] **99e:58007**
Robinson, Zachary Flatness and smooth points of p-adic subanalytic sets. (English summary) **99b:32050**
Shiota, Masahiro ★ Geometry of subanalytic and semialgebraic sets. (English summary) **99b:14061**
Ta Lê Loi Whitney stratification of sets definable in the structure $\mathbf{R}_{\exp}$. (English summary) **99f:14074**

32B25 Triangulation and related questions

Items with secondary classifications in 32B25

Kostov, Ivan K. (*with* Staudacher, Matthias; Wynter, Thomas) Complex matrix models and statistics of branched coverings of 2D surfaces. (English summary) **99h:81193**
Staudacher, Matthias *see* **Kostov, Ivan K.; et al., 99h:81193**
Wynter, Thomas *see* **Kostov, Ivan K.; et al., 99h:81193**

32B99 None of the above, but in this section

Items with secondary classifications in 32B99

Skalski, Grzegorz On the Łojasiewicz exponent for a pair of analytic sets. (English and Polish summaries) **99d:32005**

32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Beloshapka, Valerii K. The normal form of the germ of a four-dimensional real manifold in $\mathbf{C}^5$ at an RC-singular point in general position. (Russian) **99f:32012**
Broglia, Fabrizio (*with* Luminati, Domenico) Connected sum of compact analytic hypersurfaces. (English summary) **99d:32006**
Ezhov, Vladimir V. (*with* Schmalz, Gerd) A simple proof of Beloshapka's theorem on the parametrization of the automorphism group of CR-varieties. (Russian) **99f:32013**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Volumes, feuilles de Rolle de feuilletages analytiques et théorème de Wilkie. (English and French summaries) [Volumes, Rolle leaves of analytic foliations and Wilkie theorem] **99m:32009**
Luminati, Domenico *see* **Broglia, Fabrizio, 99d:32006**
Malgrange, Bernard Variétés analytiques réelles (d'après F. Bruhat, H. Cartan, et B. Malgrange). [Real-analytic manifolds (after F. Bruhat, H. Cartan, and B. Malgrange)] (*see* **99f:00036**)
Norguet, François Problème de Levi et plongement des variétés analytiques réelles (d'après Hans Grauert). [The Levi problem and embeddings of real-analytic manifolds (after Hans Grauert)] (*see* **99f:00037**)
Rolin, Jean-Philippe *see* **Lion, Jean-Marie, 99m:32009**
Schmalz, Gerd *see* **Ezhov, Vladimir V., 99f:32013**
Tognoli, Alberto Approximation theorems in real analytic and algebraic geometry. **99e:32008**

Items with secondary classifications in 32C05

Chazal, Frédéric (*with* Lion, Jean-Marie) Une propriété des solutions non spiralantes d'équations différentielles analytiques du plan. (English and French summaries) [A property of nonspiralling solutions of analytic differential equations in the plane] **99j:34009**
Lion, Jean-Marie *see* **Chazal, Frédéric, 99j:34009**
Sussmann, Héctor J. Some optimal control applications of real-analytic stratifications and desingularization. **99m:49002**

32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

Items with secondary classifications in 32C07

Quarez, Ronan The idempotency of the real spectrum implies the extension theorem for Nash functions. **99d:14062**

32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Kan, Su-Jen On the rigidity of non-positively curved Grauert tubes. **99i:32011**

Items with secondary classifications in 32C10

De Fabritiis, Chiara A family of complex manifolds covered by Δ_*. (English summary) **99k:32055**
Enoki, Ichiro Generalizations of Albanese mappings for non-Kähler manifolds. **99b:32044**
Jelonek, Zbigniew Linearly independent divisors on complex manifolds. (English summary) **99e:32010**
Lárusson, Finnur Compact quotients of large domains in complex projective space. (English and French summaries) **99d:32035**

32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

Onishchik, A. L. A moduli problem related to complex supermanifolds. (English summary) **99g:32010**
— A construction of non-split supermanifolds. (English summary) **99e:32009**

Items with secondary classifications in 32C11

(King, James R.) *see* **Manin, Yurīĭ Ivanovich, 99e:32001**
(Koblitz, Neal) *see* **Manin, Yurīĭ Ivanovich, 99e:32001**
Manin, Yurīĭ Ivanovich ★ Gauge field theory and complex geometry. **99e:32001**
— (*with* Merkulov, Sergei) Semisimple Frobenius (super)manifolds and quantum cohomology of $\mathbf{P}^r$. (English summary) **99f:32032**
Merkulov, Sergei *see* **Manin, Yurīĭ Ivanovich, 99f:32032** *and* **99e:32001**

32C15 Complex spaces

Cartan, Henri Espaces fibrés analytiques complexes. [Complex-analytic fiber spaces] (*see* **99f:00033**)
Jelonek, Zbigniew Linearly independent divisors on complex manifolds. (English summary) **99e:32010**

Items with secondary classifications in 32C15

Joseph, James E. (*with* Kwack, Myung H.) Families of Bloch functions on higher-dimensional complex spaces. (English summary) **99d:32003**
Kwack, Myung H. *see* **Joseph, James E., 99d:32003**

32C16 CR-manifolds

Beloshapka, Valerii K. Local invariants and exclusions on mappings of CR-manifolds. (Russian) **99e:32011**
— CR-varieties of the type (1, 2) as varieties of "super-high" codimension. (English summary) **99f:32014**
Boggess, Al (*with* Glenn, Laura Ann; Nagel, Alexander) Model rigid CR submanifolds of CR dimension 1. (English summary) **99g:32011**
Cheng, Jih-Hsin The geometry of Cauchy-Riemann manifolds in dimension three. (*see* **99g:00046**)
Chirka, E. M. (*with* Rea, C.) Differentiable CR mappings and CR orbits. **99f:32015**
Ezhov, Vladimir V. Triviality of scalar linear type isotropy subgroup by passing to an alternative canonical form of a hypersurface. (English summary) **99j:32005**
Garrity, Thomas (*with* Mizner, Robert) The equivalence problem for higher-codimensional CR structures. (English summary) **99b:32007**
Glenn, Laura Ann *see* **Boggess, Al; et al., 99g:32011**
Hill, C. Denson (*with* Nacinovich, Mauro) Simplicially q-pseudoconcave CR manifolds and wedge decomposition. **99k:32012**
Hirachi, Kengo CR invariant of weight 6. (Japanese) (*see* **99f:32001**)
Kuranishi, Masatake CR structures and tubular complex neighborhoods. **99h:32008**
— Recent development in CR embedding theorem. **99b:32008**
Luk, Hing Sun (*with* Yau, Stephen Shing Toung) Counterexample to boundary regularity of a strongly pseudoconvex CR submanifold: an addendum to the paper of Harvey-Lawson. **99j:32006**
Maâti, Abderrabi Plongement des structures de Cauchy-Riemann rigides de $\mathbf{R}^3$. (English and French summaries) [Embedding of rigid Cauchy-Riemann structures of $\mathbf{R}^3$] **99k:32013**
Medori, C. (*with* Nacinovich, Mauro) Levi-Tanaka algebras and homogeneous CR manifolds. (English summary) **99d:32007**
Mizner, Robert *see* **Garrity, Thomas, 99b:32007**
Nacinovich, Mauro *see* **Medori, C., 99d:32007** *and* **Hill, C. Denson, 99k:32012**
Nagel, Alexander *see* **Boggess, Al; et al., 99g:32011**
Rea, C. *see* **Chirka, E. M., 99f:32015**

Rossi, Patrizia On the defect of an analytic disc. (English summary) **99g:32012**
Stanton, Nancy K. Homogeneous CR submanifolds in $\mathbf{C}^n$. **99d:32008**
Takeuchi, Shigeru Canonical CR structures of tensor spaces of Hermitian CR manifolds. (English summary) **99g:32013**
— Canonical DR structures on the space of DR morphisms. (English summary) **99j:32007**
Tumanov, Alexander Thin discs and a Morera theorem for CR functions. **99k:32014**
Yau, Stephen Shing Toung *see* **Luk, Hing Sun**, **99j:32006**
Zaitsev, Dmitri Germs of local automorphisms of real-analytic CR structures and analytic dependence on k-jets. (English summary) **99a:32007**

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Akahori, Takao Deformation theory of CR-structures and its application to deformations of isolated singularities. I. **99d:32023**
Baouendi, Mohamed Salah (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) Algebraicity of holomorphic mappings between real algebraic sets in $\mathbf{C}^n$. **99b:32030**
— (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) CR automorphisms of real analytic manifolds in complex space. **99i:32024**
Barkatou, Moulay-Youssef Formules locales de type Martinelli-Bochner-Koppelman sur des variétés CR. (English summary) [Local Martinelli-Bochner-Koppelman formulas on CR manifolds] **99k:32001**
Beloshapka, Valerii K. The normal form of the germ of a four-dimensional real manifold in $\mathbf{C}^5$ at an **RC**-singular point in general position. (Russian) **99f:32012**
Bland, John (*with* Epstein, Charles L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. (English summary) **99f:32025**
Boggess, Al The holomorphic extension of C^k CR functions on tube submanifolds. (English summary) **99j:32010**
Chirka, E. M. On the uniform approximation on totally real sets in $\mathbf{C}^n$. (English summary) **99k:32021**
Ebenfelt, Peter *see* **Baouendi, Mohamed Salah; et al.**, **99b:32030** *and* **99i:32024**
Epstein, Charles L. *see* **Bland, John**, **99f:32025**
Ezhov, Vladimir V. (*with* Schmalz, Gerd) A simple proof of Beloshapka's theorem on the parametrization of the automorphism group of CR-varieties. (Russian) **99f:32013**
Fels, Gregor (*with* Geatti, Laura) Geometry of biinvariant subsets of complex semisimple Lie groups. **99g:22014**
Geatti, Laura *see* **Fels, Gregor**, **99g:22014**
Han, Chong-Kyu (*with* Yoo, Jae-Nyun) A method of prolongation of tangential Cauchy-Riemann equations. **99d:32022**
— Complete differential system for the mappings of CR manifolds of nondegenerate Levi forms. **99b:32024**
Hayashimoto, Atsushi On the classification theorem for CR mappings. (English summary) **99g:32051**
Jöricke, Burglind Deformation of CR-manifolds, minimal points and CR-manifolds with the microlocal analytic extension property. (English summary) **99f:32026**
Le, Anbo CR circle bundles and Mizohata structures. (English summary) **99h:32021**
Lempert, László Spaces of Cauchy-Riemann manifolds. **99a:32019**
Medori, C. (*with* Nacinovich, Mauro) Pluriharmonic functions on abstract CR manifolds. **99d:32019**
Miyajima, Kimio Deformation theory of CR-structures and its application to deformations of isolated singularities. II. **99d:32024**
Nacinovich, Mauro *see* **Medori, C.**, **99d:32019**
Ronkin, L. I. CR-functions and holomorphic almost periodic functions with an integer finite basis. (Russian. English, Russian and Ukrainian summaries) **99e:32004**
Rothschild, Linda Preiss *see* **Baouendi, Mohamed Salah; et al.**, **99b:32030** *and* **99i:32024**
Schmalz, Gerd Über die Automorphismen einer streng pseudokonvexen CR-Mannigfaltigkeit der Kodimension 2 im $\mathbf{C}^4$. (German summary) [On the automorphisms of a strictly pseudoconvex CR manifold of codimension 2 in $\mathbf{C}^4$] **99k:32027**
— *see also* **Ezhov, Vladimir V.**, **99f:32013**
Trautman, Andrzej On complex structures in physics. (English summary) **99m:81105**
Yoo, Jae-Nyun *see* **Han, Chong-Kyu**, **99d:32022**

32C17 Kähler geometry {For differential-geometric methods see 53C55.}

Hamada, Hidetaka (*with* Yasuoka, Takashi) A general Schwarz lemma on complete Kähler manifolds. (English summary) **99i:32012**
Koszul, Jean-Louis Formes hermitiennes canoniques des espaces homogènes complexes. [Canonical Hermitian forms of complex homogeneous spaces] (*see* **99f:00035**)
Napier, Terrence (*with* Ramachandran, Mohan) The Bochner-Hartogs dichotomy for weakly 1-complete Kähler manifolds. (English and French summaries) **99e:32012**
— (*with* Ramachandran, Mohan) The L^2 $\overline{\partial}$-method, weak Lefschetz theorems, and the topology of Kähler manifolds. (English summary) **99a:32008**
Ramachandran, Mohan *see* **Napier, Terrence**, **99a:32008** *and* **99e:32012**
Tong, Wu *see* **Yin, Wei Ping**, **99c:32004**
Wang, Bin Asymptotics of the Archimedean height pairing. (English summary) **99i:32013**
Yasuoka, Takashi *see* **Hamada, Hidetaka**, **99i:32012**
Yin, Wei Ping (*with* Tong, Wu) Invariant Kähler metrics and curvatures on a class of pseudoconvex domains. (Chinese. English and Chinese summaries) **99c:32004**

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Barletta, Elisabetta (*with* Dragomir, Sorin) On boundary behaviour of symplectomorphisms. **99k:32039**
Dragomir, Sorin *see* **Barletta, Elisabetta**, **99k:32039**
Kołodziej, Sławomir The complex Monge-Ampère equation. **99h:32017**
Mok, Ngaiming The generalized theorem of Castelnuovo-de Franchis for unitary representations. **99a:32038**
Pabst, Gudrun ★ Homogene Kähler-Mannigfaltigkeiten nicht-positiver Krümmung. (German) [Homogeneous Kähler manifolds with nonpositive curvature] **99f:32053**
Ray, Koushik A Ricci-flat metric on D-brane orbifolds. (English summary) **99h:81186**
Takayama, Shigeharu Adjoint linear series on weakly 1-complete Kähler manifolds. I. Global projective embedding. **99k:32049**
Woodward, Chris T. Spherical varieties and existence of invariant Kähler structures. **99d:58072**
Yasuoka, Takashi Gradient estimates of holomorphic maps from Kähler CH manifolds. (English summary) **99k:32046**

32C18 Topology of analytic spaces

Cartan, Henri Sur un mémoire inédit de H. Grauert: "Zur Theorie der analytisch vollständigen Räume". [On an unpublished memoir of H. Grauert: "On the theory of analytically complete spaces"] (*see* **99f:00035**)
Kwieciński, Michał Remarks on the local geometry of analytic maps. (English summary) **99j:32008**

Items with secondary classifications in 32C18

Cartan, Henri Fonctions et variétés algébroides (d'après Hirzebruch). [Algebroid functions and varieties (after Hirzebruch)] (*see* **99f:00034**)
Lárusson, Finnur Holomorphic neighbourhood retractions of ample hypersurfaces. **99f:32028**
Mihalache, Nicolae Topological results in analytic convexity. **99m:32015**

32C25 Analytic subsets and submanifolds

Bruhat, François Prolongement des sous-variétés analytiques (d'après W. Rothstein). [Extension of analytic subvarieties (after W. Rothstein)] (*see* **99f:00035**)
Cartan, Henri Fonctions et variétés algébroides (d'après Hirzebruch). [Algebroid functions and varieties (after Hirzebruch)] (*see* **99f:00034**)
Douady, Adrien Espaces analytiques sous-algébriques (d'après B. G. Moĭšezon). [Subalgebraic analytic spaces (after B. G. Moishezon)] (*see* **99f:00042**)
Pedersen, Henrik (*with* Poon, Yat Sun) Deformations of hypercomplex structures. (English summary) **99h:32009**
Poon, Yat Sun *see* **Pedersen, Henrik**, **99h:32009**
Rams, Sławomir Bézout-type theorems for certain analytic sets. (English summary) **99g:32014**
Thom, Réné Propriétés différentielles locales des ensembles analytiques (d'après H. Whitney). [Local differential properties of analytic sets (after H. Whitney)] (*see* **99f:00041**)

Items with secondary classifications in 32C25

Černe, Miran Analytic varieties with boundaries in totally real tori. **99e:32025**
Ivashkovich, S. Complex Plateau problem in non-Kähler manifolds. (English summary) **99m:32011**
Shatalov, V. E. *see* **Sternin, Boris Yu.**, **99b:35017**
Sternin, Boris Yu. (*with* Shatalov, V. E.) Analytic continuation of solutions of integral equations and localization of singularities. (Russian. Russian summary) **99b:35017**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Barlet, Daniel (*with* Maire, H.-M.) Décroissance rapide de la distribution f^λ. (English summary) [Rapid decrease of the distribution f^λ] **99c:32005**
Coman, Dan Integration by parts for currents and applications to the relative capacity and Lelong numbers. **99c:32006**
Dickenstein, Alicia (*with* Sessa, Carmen) Résidus de formes méromorphes et cohomologie modérée. (English summary) [Residues of meromorphic forms and moderate cohomology] **99a:32009**
Dinh, Tien-Cuong Enveloppe polynomiale d'un compact de longueur finie et chaînes holomorphes à bord rectifiable. [Polynomial envelope of a compact subset of finite length and holomorphic chains with rectifiable boundary] **99f:32016**
— Problème du bord dans l'espace projectif complexe. (English and French summaries) [Boundary problem in complex projective space] **99m:32010**
El Mir, Hassine (*with* Feki, Imed) Prolongement et contrôle d'un courant positif fermé par ses tranches. (English and French summaries) [Extension and mass control of a positive d-closed current by its slices] **99k:32015**
Favorov, S. Yu. (*with* Rashkovskiĭ, A. Yu.; Ronkin, L. I.) Almost periodic currents and holomorphic chains. (English and French summaries) **99k:32016**
Feki, Imed *see* **El Mir, Hassine**, **99k:32015**
Ivashkovich, S. Complex Plateau problem in non-Kähler manifolds. (English summary) **99m:32011**
Maire, H.-M. *see* **Barlet, Daniel**, **99c:32005**
Meo, Michel Inégalités d'auto-intersection pour les courants positifs fermés définis dans les variétés projectives. [Self-intersection inequalities for closed positive currents defined in projective varieties] **99e:32013**
Poly, Jean-Baptiste (*with* Raby, Gilles) Prolongement de courants positifs à travers de petits obstacles. (English summary) [Extension of positive currents across small obstacles] **99j:32009**
Raby, Gilles *see* **Poly, Jean-Baptiste**, **99j:32009**
Rashkovskiĭ, A. Yu. Eigenvalues of positive currents of bidegree $(1,1)$. (English and French summaries) **99h:32010**
— *see also* **Favorov, S. Yu.; et al.**, **99k:32016**
Ronkin, L. I. *see* **Favorov, S. Yu.; et al.**, **99k:32016**
Sessa, Carmen *see* **Dickenstein, Alicia**, **99a:32009**

Items with secondary classifications in 32C30

Dinh, Tien-Cuong Orthogonal measures on the boundary of a Riemann surface and polynomial hull of compacts of finite length. (English summary) **99h:32013**
Favre, Charles Points périodiques d'applications birationnelles de $\mathbf{P}^2$. (English and French summaries) [Periodic points of birational mappings of $\mathbf{P}^2$] **99i:32031**
Fornæss, John Erik (*with* Sibony, Nessim) Hyperbolic maps on $\mathbf{P}^2$. **99d:32032**
Henkin, Gennadi (*with* Passare, Mikael) Abelian differentials on singular varieties and variations on a theorem of Lie-Griffiths. (English summary) **99m:32038**

Henne, Benedikt Classes de Nevanlinna dans certains domaines strictement pseudoconvexes non lisses. (English and French summaries) [Nevanlinna classes in some non-smooth strictly pseudoconvex domains] **99k:32008**
Khovanskiĭ, A. G. On a lemma of Kontsevich. (Russian) **99a:58077**
Passare, Mikael *see* **Henkin, Gennadi, 99m:32038**
Rashkovskiĭ, A. Yu. Flows associated with holomorphic almost periodic mappings. (Russian. English, Russian and Ukrainian summaries) **99b:32040**
Rigat, Stéphane Version explicite du principe fondamental d'Ehrenpreis-Malgrange-Palamodov dans le cas non homogène. (French summary) [Explicit version of the Ehrenpreis-Malgrange-Palamodov fundamental principle in the nonhomogeneous case] **99g:32004**
Sibony, Nessim *see* **Fornæss, John Erik, 99d:32032**
Vidras, Alekos (*with* Yger, Alain) On asymptotic approximations of the residual currents. (English summary) **99c:32003**
Yger, Alain *see* **Vidras, Alekos, 99c:32003**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Douady, Adrien Platitude et privilège. [Flatness and privilege] (*see* **99f:00041**)
— Le théorème de Grauert sur la cohérence des faisceaux-images d'un faisceau analytique cohérent par un morphisme propre. [The Grauert theorem on the coherence of the image sheaves of a coherent analytic sheaf under a proper morphism] (*see* **99f:00038**)
Kato, Fumiharu The relative log Poincaré lemma and relative log de Rham theory. **99g:32015**
Malgrange, Bernard Majorations a priori et d''-cohomologie [MR 31 #378]. [A priori upper bounds and d''-cohomology] (*see* **99f:00040**)
Norguet, François Théorèmes de finitude pour la cohomologie des espaces complexes (d'après Aldo Andreotti et Hans Grauert). [Finiteness theorems for the cohomology of complex spaces (after Aldo Andreotti and Hans Grauert)] (*see* **99f:00039**)
Serre, Jean-Pierre Cohomologie et fonctions de variables complexes. [Cohomology and functions of complex variables] (*see* **99f:00034**)
— Faisceaux analytiques. [Analytic sheaves] (*see* **99f:00034**)
Watanabe, Kiyoshi Cousin problems and holomorphic cocycles. (English summary) **99k:32017**

Items with secondary classifications in 32C35

Akhiezer, D. N. Group actions on the Dolbeault cohomology of homogeneous manifolds. **99a:32044**
Dickenstein, Alicia (*with* Sessa, Carmen) Résidus de formes méromorphes et cohomologie modérée. (English summary) [Residues of meromorphic forms and moderate cohomology] **99a:32009**
Douady, Adrien Cycles analytiques (d'après M. F. Atiyah et F. Hirzebruch). [Analytic cycles (after M. F. Atiyah and F. Hirzebruch)] (*see* **99f:00039**)
Grothendieck, Alexander Sur le mémoire de Weil: généralisation des fonctions abéliennes. [On Weil's memoir: generalization of abelian functions] (*see* **99f:00036**)
Kajiwara, Joji (*with* Shon, Kwang Ho; Tsuji, Miki) Localization of global existence of holomorphic solutions of holomorphic differential equations with infinite-dimensional parameter. **99m:32039**
Kisin, Mark Analytic functions on Zariski open sets, and local cohomology. (English summary) **99m:32012**
Sessa, Carmen *see* **Dickenstein, Alicia, 99a:32009**
Shon, Kwang Ho *see* **Kajiwara, Joji; et al., 99m:32039**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 99m:32039**

32C36 Local cohomology of analytic spaces

Kisin, Mark Analytic functions on Zariski open sets, and local cohomology. (English summary) **99m:32012**

32C37 Duality theorems

Beyer, Peter Zur Serre-Dualität für kohärente Garben auf rigid-analytischen Räumen. [On Serre duality for coherent sheaves on rigid-analytic spaces] **99d:32009**
— On Serre-duality for coherent sheaves on rigid-analytic spaces. **99b:32009**

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Berkovich, Vladimir G. p-adic analytic spaces. (English summary) **99h:14026**
Kosarew, Siegmund Nonabelian duality on Stein spaces. (English summary) **99d:32015**

32C38 Sheaves of differential operators and their modules [see also 14F10, 16S32, 35A27, 58G07]

Belgrade, Ridha Intégration dans les fibres, transformée de Mellin et conjugaison d'un $\mathscr{D}$-module holonome irrégulier. [Integration in fibers, Mellin transform and conjugation of an irregular holonomic $\mathscr{D}$-module] **99d:32010**
Benoist, Yves $\mathscr{D}$-modules sur la variété des drapeaux. [$\mathscr{D}$-modules on the flag manifold] **99c:32007**
Berni, Olivier A vanishing theorem for formal cohomology of perverse sheaves. (English summary) **99g:32016**
Castro-Jiménez, Francisco Jesús Exercices sur le complexe de de Rham et l'image directe des $\mathscr{D}$-modules. [Exercises on the de Rham complex and the direct image of $\mathscr{D}$-modules] **99g:32018**
Granger, Michel (*with* Maisonobe, Philippe) A basic course on differential modules. **99c:32008**
Gyoja, Akihiko Theory of prehomogeneous vector spaces. II. A supplement. **99a:32010**
Honda, Naofumi Microfunction solutions of holonomic systems with irregular singularities. **99i:32014**
Ishimura, R. The Cauchy-Kowalevski theorem for $\mathscr{E}$-modules. (English and French summaries) **99i:32015**
Kashiwara, Masaki Semisimple holonomic $\mathscr{D}$-modules. **99m:32013**
Maisonobe, Philippe *see* **Granger, Michel, 99c:32008**
Majima, Hideyuki Vanishing theorems in asymptotic analysis. III. Applications to confluent hypergeometric differential equations. **99e:32014**
Malgrange, Bernard De Rham complex and direct images of $\mathscr{D}$-modules. **99g:32017**
— Systèmes différentiels à coefficients constants. [Differential systems with constant coefficients] (*see* **99f:00040**)
Marastoni, Corrado Theory of sheaves and integral transforms between Grassmann manifolds for $\mathscr{D}$-modules. (Italian)
Menezes, Carlos An upper bound for the characteristic variety of an induced $\mathscr{D}$-module. (English summary) **99c:32009**
Oaku, Toshinori Some algorithmic aspects of the D-module theory. (English summary) **99g:32019**
— Algorithms for b-functions, restrictions, and algebraic local cohomology groups of D-modules. **99a:32011**
Sabbah, Claude Introduction to algebraic theory of linear systems of differential equations. **99f:32017**
Takeuchi, Kiyoshi[2] Microlocal inverse image and bimicrolocalization. **99f:32018**
Uchida, Motoo A remark on finiteness and duality of $\mathscr{D}$-modules. **99g:32020**

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Bressler, Paul (*with* Saito, Morihiko; Youssin, Boris) Filtered perverse complexes. (English summary) **99i:14022**
Colin, Violaine Formal microlocalization. (English and French summaries) **99i:58140**
Funakoshi, Shota Elementary construction of the sheaf of small 2-microfunctions and an estimate of supports. (English summary) **99a:58141**
Geandier, Françoise I. $\mathbf{C}\{\{b\}\}$-modules et système de Gauss-Manin. II. Valuation sur un (a,b)-module quasi-unipotent et bases de Saito. [I. $\mathbf{C}\{\{b\}\}$-modules and Gauss-Manin system. II. Valuation on a quasi-unipotent (a,b)-module and Saito bases] **99a:32056**
Kasman, Alex *see* **Berest, Yu. Yu., 99b:13026**
Majima, Hideyuki Some isomorphism theorems of cohomology groups for completely integrable connections. **99g:32038**
Marastoni, Corrado Grassmann duality for $\mathscr{D}$-modules. (English and French summaries) **99i:14060**
Mebkhout, Zoghman (*with* Narváez-Macarro, Luis) Le théorème de constructibilité de Kashiwara. [The Kashiwara constructibility theorem] **99g:32061**
Narváez-Macarro, Luis *see* **Mebkhout, Zoghman, 99g:32061**
Oaku, Toshinori (*with* Yamazaki, Susumu) Higher-codimensional boundary value problems and F-mild microfunctions—local and microlocal uniqueness. (English summary) **99k:58169**
Saito, Morihiko *see* **Bressler, Paul; et al., 99i:14022**
Schapira, Pierre Boundary values, Fourier-Sato transform and Laplace transform. (English summary) **99d:32040**
Vidras, Alekos (*with* Yger, Alain) On asymptotic approximations of the residual currents. (English summary) **99c:32003**
Yamazaki, Susumu *see* **Oaku, Toshinori, 99k:58169**
Yger, Alain *see* **Vidras, Alekos, 99c:32003**
Youssin, Boris *see* **Bressler, Paul; et al., 99i:14022**

32C81 Applications to physics

Items with secondary classifications in 32C81

Bros, Jacques (*with* Epstein, Henri; Moschella, Ugo) Analyticity properties and thermal effects for general quantum field theory on de Sitter space-time. (English summary) **99i:81135**
Douglas, Michael R. (*with* Kato, Akishi; Ooguri, Hirosi) D-brane actions on Kähler manifolds. (English summary) **99b:81187**
— D-branes in curved space. (English summary) **99c:81176**
Epstein, Henri *see* **Bros, Jacques; et al., 99i:81135**
Kato, Akishi *see* **Douglas, Michael R.; et al., 99b:81187**
Moschella, Ugo *see* **Bros, Jacques; et al., 99i:81135**
Ooguri, Hirosi *see* **Douglas, Michael R.; et al., 99b:81187**

32C99 None of the above, but in this section

Korobeĭnik, Yu. F. Countable definability of a family of domains that contain a connected set. Applications to spaces of analytic germs. (Russian) **99i:32016**
Ronkin, L. I. Almost periodic divisors and the spatial extension of almost periodic measures. **99f:32019**

32Dxx Analytic continuation

32D05 Domains of holomorphy

Liu, Cong Wen *see* **Liu, Tai Shun; et al., 99h:32011** *and* **Zhang, Wen Jun; et al.**
Liu, Tai Shun (*with* Liu, Cong Wen; Zhang, Wen Jun) An interpolation characterization of domains of holomorphy. **99h:32011**
Lu, Tai Shun *see* **Zhang, Wen Jun; et al.**
Zhang, Wen Jun (*with* Lu, Tai Shun; Liu, Cong Wen) An interpolation characterization of domains of holomorphy. (Chinese)
— *see also* **Liu, Tai Shun; et al., 99h:32011**
Zhou, Xiang Yu A proof of the extended future tube conjecture. (Russian. Russian summary) **99i:32017**
— The extended future tube is a domain of holomorphy. **99d:32011**

32D10 Envelopes of holomorphy

Items with secondary classifications in 32D10

Boggess, Al The holomorphic extension of C^k CR functions on tube submanifolds. (English summary) **99j:32010**

Černe, Miran Regularity of discs attached to a submanifold of $\mathbf{C}^n$. (English summary) **99c:32025**

Dinh, Tien-Cuong Enveloppe polynomiale d'un compact de longueur finie et chaînes holomorphes à bord rectifiable. [Polynomial envelope of a compact subset of finite length and holomorphic chains with rectifiable boundary] **99f:32016**

Fornæss, John Erik The disc method. **99c:32011**

Jöricke, Burglind Deformation of CR-manifolds, minimal points and CR-manifolds with the microlocal analytic extension property. (English summary) **99f:32026**

32D15 Continuation of analytic objects

Adachi, Kenzō (*with* Cho, Hong Rae) H^p and L^p extensions of holomorphic functions from subvarieties to certain convex domains. (English summary) **99b:32010**

Boggess, Al The holomorphic extension of C^k CR functions on tube submanifolds. (English summary) **99j:32010**

— The holomorphic extension of H^p-CR functions on tube submanifolds. (English summary) **99h:32012**

Cho, Hong Rae A counterexample to the L^p extension of holomorphic functions from subvarieties to pseudoconvex domains. (English summary) **99c:32010**

— L^p and H^p extensions of holomorphic functions from subvarieties. **99j:32011**

— *see also* **Adachi, Kenzō, 99b:32010**

Diederich, Klas (*with* Mazzilli, Emmanuel) Extension and restriction of holomorphic functions. (English and French summaries) **99d:32012**

Do Duc Thai (*with* Thomas, Pascal J.) $\mathbf{D}^*$-extension property without hyperbolicity. (English summary) **99j:32012**

Fornæss, John Erik The disc method. **99c:32011**

Harris, Adam Analytic continuation of complex gauge fields. (English summary) **99j:32013**

Hayashimoto, Atsushi On the relations between the holomorphic extendability theorems and the finiteness properties. **99j:32014**

Huang, Xiaojun (*with* Ji, Shanyu) Global holomorphic extension of a local map and a Riemann mapping theorem for algebraic domains. **99d:32013**

Ji, Shanyu *see* **Huang, Xiaojun, 99d:32013**

Kytmanov, A. M. (*with* Myslivets, S. G.) On the holomorphicity of functions representable by the logarithmic residue formula. (Russian. Russian summary) **99b:32011**

— (*with* Tsikh, I. A.) On the holomorphic continuation of CR-hyperfunctions into a fixed domain. (Russian. Russian summary) **99e:32015**

— (*with* Myslivets, S. G.) On an application of the Bochner-Martinelli operator. (English summary) **99b:32012**

— (*with* Myslivets, S. G.) On the holomorphic continuation of functions along complex curves. (Russian) **99c:32012**

Manfrin, Renato (*with* Scalari, Alberto; Zampieri, Giuseppe) Propagation along complex curves on a hypersurface. **99c:32013**

Mazzilli, Emmanuel Extension des fonctions holomorphes dans les pseudo-ellipsoïdes. [Extension of holomorphic functions in pseudoellipsoids] **99d:32014**

— *see also* **Diederich, Klas, 99d:32012**

Merker, Joël (*with* Meylan, Francine) On the Schwarz symmetry principle in a model case. (English summary) **99f:32020**

Meylan, Francine *see* **Merker, Joël, 99f:32020**

Myslivets, S. G. On holomorphic continuation of functions along complex curves. **99c:32014**

— *see also* **Kytmanov, A. M., 99b:32011**; **99b:32012** *and* **99c:32012**

Scalari, Alberto *see* **Manfrin, Renato; et al., 99c:32013**

Thomas, Pascal J. *see* **Do Duc Thai, 99j:32012**

Tsikh, I. A. *see* **Kytmanov, A. M., 99e:32015**

Tsuji, Miki Extension problem of holomorphic functions. (English summary) **99j:32015**

Zampieri, Giuseppe *see* **Manfrin, Renato; et al., 99c:32013**

Items with secondary classifications in 32D15

Chirka, E. M. On the uniform approximation on totally real sets in $\mathbf{C}^n$. (English summary) **99k:32021**

Colţoiu, Mihnea On the Oka-Grauert principle for 1-convex manifolds. **99c:32040**

Dinh, Tien-Cuong Problème du bord dans l'espace projectif complexe. (English and French summaries) [Boundary problem in complex projective space] **99m:32010**

Ebenfelt, Peter (*with* Khavinson, Dmitry; Shapiro, Harold S.) Extending solutions of holomorphic partial differential equations across real hypersurfaces. **99j:35014**

El Mir, Hassine (*with* Feki, Imed) Prolongement et contrôle d'un courant positif fermé par ses tranches. (English and French summaries) [Extension and mass control of a positive d-closed current by its slices] **99k:32015**

Feki, Imed *see* **El Mir, Hassine, 99k:32015**

Fourlinnie, Hervé Version Carleman du théorème de l'"edge of the wedge". (English and French summaries) [Carleman version of the "edge of the wedge" theorem] **99k:32010**

Khavinson, Dmitry *see* **Ebenfelt, Peter; et al., 99j:35014**

Maergoïz, L. S. Extremal properties of entire functions in Wiener classes and their applications. (Russian) **99i:32001**

Mir, Nordine Sur l'analyticité des germes d'applications CR entre hypersurfaces analytiques réelles dans $\mathbf{C}^{N+1}$. (English and French summaries) [On the analytic extension of germs of CR mappings between real analytic hypersurfaces in $\mathbf{C}^{N+1}$] **99k:32026**

Nguyen Thanh Van Separate analyticity and related subjects. (English summary) **99m:32002**

Paolantoni, Victoria Subaveraging estimates for CR functions on a hypersurface of $\mathbf{C}^n$. (English summary) **99j:32021**

Poly, Jean-Baptiste (*with* Raby, Gilles) Prolongement de courants positifs à travers de petits obstacles. (English summary) [Extension of positive currents across small obstacles] **99j:32009**

Raby, Gilles *see* **Poly, Jean-Baptiste, 99j:32009**

Rossi, Patrizia On the defect of an analytic disc. (English summary) **99g:32012**

Shapiro, Harold S. *see* **Ebenfelt, Peter; et al., 99j:35014**

Tumanov, Alexander Analytic discs and the extendibility of CR functions. **99f:32024**

Zaitsev, Dmitri Germs of local automorphisms of real-analytic CR structures and analytic dependence on k-jets. (English summary) **99a:32007**

32D20 Removable singularities

Colombo, Fabrizio (*with* Loustaunau, Philippe; Sabadini, Irene; Struppa, Daniele C.) Regular functions of biquaternionic variables and Maxwell's equations. (English summary) **99g:32021**

Loustaunau, Philippe *see* **Colombo, Fabrizio; et al., 99g:32021**

Merker, Joël (*with* Porten, Egmont) On the local meromorphic extension of CR meromorphic mappings. (English summary) **99j:32016**

Porten, Egmont *see* **Merker, Joël, 99j:32016**

Sabadini, Irene *see* **Colombo, Fabrizio; et al., 99g:32021**

Struppa, Daniele C. *see* **Colombo, Fabrizio; et al., 99g:32021**

Items with secondary classifications in 32D20

Manfrin, Renato (*with* Scalari, Alberto; Zampieri, Giuseppe) Propagation along complex curves on a hypersurface. **99c:32013**

Scalari, Alberto *see* **Manfrin, Renato; et al., 99c:32013**

Zampieri, Giuseppe *see* **Manfrin, Renato; et al., 99c:32013**

32D99 None of the above, but in this section

Items with secondary classifications in 32D99

Watanabe, Kiyoshi Cousin problems and holomorphic cocycles. (English summary) **99k:32017**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Akhiezer, D. N. (*with* Loeb, Jean-Jacques) Enveloppes holomorphiquement convexes invariantes. (English and French summaries) [Invariant holomorphically convex hulls] **99m:32014**

Loeb, Jean-Jacques *see* **Akhiezer, D. N., 99m:32014**

Items with secondary classifications in 32E05

Abe, Makoto² On the union of 1-convex open sets. (English summary) **99b:32016**

Katzarkov, Ludmil (*with* Ramachandran, Mohan) On the universal coverings of algebraic surfaces. (English and French summaries) **99h:14015**

Mok, Ngaiming Holomorphic foliations with compatible degenerate Kähler metrics: applications to the Shafarevich conjecture and to fibration theorems. **99e:32048**

Ramachandran, Mohan *see* **Katzarkov, Ludmil, 99h:14015**

Takayama, Shigeharu The Levi problem and the structure theorem for non-negatively curved complete Kähler manifolds. **99j:32034**

32E10 Stein spaces, Stein manifolds

Ahn, Jong Su The characterizations of Stein spaces by cohomology groups. (English summary) **99j:32017**

Colţoiu, Mihnea (*with* Diederich, Klas) Open sets with Stein hypersurface sections in Stein spaces. **99a:32012**

Diederich, Klas *see* **Colţoiu, Mihnea, 99a:32012**

Kosarew, Siegmund Nonabelian duality on Stein spaces. (English summary) **99d:32015**

Mihalache, Nicolae Topological results in analytic convexity. **99m:32015**

Vo Van Tan On the problems of Hartshorne and Serre for some $\mathbf{C}$-analytic surfaces. (English and French summaries) **99m:32016**

Items with secondary classifications in 32E10

De Fabritiis, Chiara A family of complex manifolds covered by Δ_n. (English summary) **99k:32055**

Diederich, Klas (*with* Ohsawa, Takeo) On pseudoconvex domains in $\mathbf{P}^n$. **99k:32024**

Dinh Huy Hoang Finite proper holomorphic surjections and linear topological invariants $(\widetilde{\Omega})$ and $(\widetilde{\Omega})$. (English summary) **99j:46050**

Gindikin, S. G. Tube domains in Stein symmetric spaces. **99i:32041**

Hamada, Hidetaka Complex manifolds which are exhausted by complete Kähler domains. (English summary) **99j:32019**

Lárusson, Finnur (*with* Sigurdsson, Ragnar) Plurisubharmonic functions and analytic discs on manifolds. **99e:32020**

Lisca, Paolo (*with* Matić, Gordana) Stein 4-manifolds with boundary and contact structures. (English summary) **99f:57037**

Ma, Zhong Tai Boundary behaviour of Bochner-Martinelli type integral on Stein manifold. (English summary) **99m:32006**

Matić, Gordana *see* **Lisca, Paolo, 99f:57037**

Neeb, Karl-Hermann On the complex and convex geometry of Ol'shanskiĭ semigroups. (English and French summaries) **99e:22013**

Ohsawa, Takeo *see* **Diederich, Klas, 99k:32024**

Serre, Jean-Pierre Cohomologie et fonctions de variables complexes. [Cohomology and functions of complex variables] (*see* **99f:00034**)

Sigurdsson, Ragnar *see* **Lárusson, Finnur, 99e:32020**

Xu, Zhong Yi A generalization of an integral formula for holomorphic functions on Stein manifolds. (Chinese. English and Chinese summaries) **99b:32004**

Yakovleva, O. V. On the Stein property of the complement of an algebraic surface in a toric manifold. (Russian. Russian summary) **99g:14068**

32E20 Polynomial convexity

Alexander, Herbert Hulls of subsets of the torus in $\mathbf{C}^2$. (English and French summaries) **99g:32022**

Dinh, Tien-Cuong Orthogonal measures on the boundary of a Riemann surface and polynomial hull of compacts of finite length. (English summary) **99h:32013**

Dixmier, Jacques Travaux de Malgrange sur les équations aux dérivées partielles elliptiques. [Works of Malgrange on elliptic partial differential equations] (*see* **99f:00035**)

Duval, Julien (*with* Levenberg, Norman) Large polynomial hulls with no analytic structure. **99g:32023**

Jimbo, Toshiya (*with* Sakai, Akira) Polynomially convex hulls of graphs on the sphere. (English summary) **99m:32017**

Levenberg, Norman Polynomial hulls with no analytic structure. **99h:32014**

— *see also* **Duval, Julien**, **99g:32023**

Sakai, Akira *see* **Jimbo, Toshiya**, **99m:32017**

Slodkowski, Zbigniew Polynomially convex hulls in $\mathbf{C}^3$ with totally real fibers. (English summary) **99g:32024**

Items with secondary classifications in 32E20

Akhiezer, D. N. (*with* Loeb, Jean-Jacques) Enveloppes holomorphiquement convexes invariantes. (English and French summaries) [Invariant holomorphically convex hulls] **99m:32014**

Boggess, Al (*with* Glenn, Laura Ann; Nagel, Alexander) Model rigid CR submanifolds of CR dimension 1. (English summary) **99g:32011**

Glenn, Laura Ann *see* **Boggess, Al; et al.**, **99g:32011**

Loeb, Jean-Jacques *see* **Akhiezer, D. N.**, **99m:32014**

Nagel, Alexander *see* **Boggess, Al; et al.**, **99g:32011**

32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Belhachemi, Rachid Peak sets in real-analytic convex boundaries. (English summary) **99k:32018**

Boutet de Monvel, Louis (*with* Iordan, A.) Peak curves in weakly pseudoconvex boundaries in $\mathbf{C}^2$. (English summary) **99e:32016**

— (*with* Iordan, A.) Real analytic maximum-modulus sets. (English summary) **99k:32019**

Dubtsov, E. S. Henkin measures, Riesz products and singular sets. (English and French summaries) **99k:32020**

Iordan, A. *see* **Boutet de Monvel, Louis**, **99e:32016** *and* **99k:32019**

Items with secondary classifications in 32E25

Backlund, Ulf (*with* Fällström, Anders) Maximal ideals in $A(\Omega)$. (English summary) **99m:46128**

Fällström, Anders *see* **Backlund, Ulf**, **99m:46128**

32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

Bloom, Thomas (*with* Calvi, Jean-Paul) A convergence problem for Kergin interpolation. II. (English summary) **99h:32015**

— (*with* Calvi, Jean-Paul) The distribution of extremal points for Kergin interpolation: real case. (English and French summaries) **99c:32015**

Calvi, Jean-Paul *see* **Bloom, Thomas**, **99c:32015** *and* **99h:32015**

Chirka, E. M. On the uniform approximation on totally real sets in $\mathbf{C}^n$. (English summary) **99k:32021**

Lempert, László Algebraic approximations. **99b:32013**

Massaneda, Xavier Interpolation by holomorphic functions in the unit ball with polynomial growth. (English and French summaries) **99b:32014**

— $A^{-\infty}$-interpolation in the ball. (English summary) **99e:32017**

Items with secondary classifications in 32E30

Belhachemi, Rachid Peak sets in real-analytic convex boundaries. (English summary) **99k:32018**

Bruna, Joaquim (*with* Ortega, Joaquín Ma.) Interpolation along manifolds in Hardy-Sobolev spaces. (English summary) **99j:32003**

Dinh, Tien-Cuong Orthogonal measures on the boundary of a Riemann surface and polynomial hull of compacts of finite length. (English summary) **99h:32013**

Liu, Cong Wen *see* **Liu, Tai Shun; et al.**, **99h:32011**

Liu, Tai Shun (*with* Liu, Cong Wen; Zhang, Wen Jun) An interpolation characterization of domains of holomorphy. **99h:32011**

Ortega, Joaquín Ma. *see* **Bruna, Joaquim**, **99j:32003**

Zhang, Wen Jun *see* **Liu, Tai Shun; et al.**, **99h:32011**

32E99 None of the above, but in this section

Kiselman, Christer O. A differential inequality characterizing weak lineal convexity. **99c:32016**

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Bruna, Joaquim (*with* Charpentier, Philippe; Dupain, Yves) Zero varieties for the Nevanlinna class in convex domains of finite type in $\mathbf{C}^n$. **99e:32023**

Charpentier, Philippe *see* **Bruna, Joaquim; et al.**, **99e:32023**

Dupain, Yves *see* **Bruna, Joaquim; et al.**, **99e:32023**

Kiselman, Christer O. Duality of functions defined in lineally convex sets. (English and Esperanto summaries) **99a:32013**

32Fxx Geometric convexity, partial differential operators

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

Agranovich, P. Z. On functions of completely regular growth with respect to a distinguished variable. (Russian. English, Russian and Ukrainian summaries) **99c:32017**

Arai, Hitoshi Complex analysis in several variables and harmonic analysis. (Japanese) **99k:32022**

Backlund, Ulf (*with* Persson, Leif) Separable maximal plurisubharmonic functions in two complex variables. (English summary) **99e:32018**

Braun, Rüdiger W. (*with* Meise, Reinhold; Taylor, B. A.) An example concerning radial Phragmén-Lindelöf estimates for plurisubharmonic functions on algebraic varieties. (English summary) **99d:32016**

Carlehed, Magnus Comparison of the pluricomplex and the classical Green functions. **99e:32019**

Chen, Shujin (*with* Xie, Yongxing) On a generalized Dirichlet problem for analytic family. (English summary) **99c:32018**

Coman, Dan Boundary behavior of the pluricomplex Green function. (English summary) **99i:32018**

Duval, Julien Sur la fonction extrémale plurisousharmonique relative à deux convexes. (English and French summaries) [On the extremal plurisubharmonic function relative to two convex sets] **99g:32025**

Edigarian, Armen (*with* Zwonek, Włodzimierz) Invariance of the pluricomplex Green function under proper mappings with applications. (English summary) **99d:32017**

Kiselman, Christer O. Duality of functions defined in lineally convex sets. (English and Esperanto summaries) **99a:32013**

Lárusson, Finnur (*with* Lassere, Patrice; Sigurdsson, Ragnar) Convexity of sublevel sets of plurisubharmonic extremal functions. (English summary) **99d:32018**

— (*with* Sigurdsson, Ragnar) Plurisubharmonic functions and analytic discs on manifolds. **99e:32020**

Lassere, Patrice *see* **Lárusson, Finnur; et al.**, **99d:32018**

Lelong, Pierre Remarks on pointwise multiplicities in complex spaces. **99f:32021**

Medori, C. (*with* Nacinovich, Mauro) Pluriharmonic functions on abstract CR manifolds. **99d:32019**

Meise, Reinhold *see* **Braun, Rüdiger W.; et al.**, **99d:32016**

Nacinovich, Mauro *see* **Medori, C.**, **99d:32019**

Persson, Leif *see* **Backlund, Ulf**, **99e:32018**

Rashkovskiĭ, A. Yu. Maximal plurisubharmonic functions associated with holomorphic mappings. (English summary) **99d:32020**

Sigurdsson, Ragnar *see* **Lárusson, Finnur; et al.**, **99d:32018** *and* **99e:32020**

Taylor, B. A. *see* **Braun, Rüdiger W.; et al.**, **99d:32016**

Xie, Yongxing *see* **Chen, Shujin**, **99c:32018**

Yulmukhametov, R. S. Smooth regularization of plurisubharmonic functions. (Russian. Russian summary) **99c:32019**

Zwonek, Włodzimierz *see* **Edigarian, Armen**, **99d:32017**

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Begehr, Heinrich G. W. Iterations of Pompeiu operators. (English and Georgian summaries) **99g:47115**

Berndtsson, Bo Uniform estimates with weights for the $\overline{\partial}$-equation. (English summary) **99h:32018**

Błocki, Zbigniew (*with* Kołodziej, Sławomir; Levenberg, Norman) Extremal functions and equilibrium measures for Borel sets. (English summary) **99f:32022**

Bos, L. P. *see* **Korevaar, J.**, **99k:41049**

(Buzzard, Gregery T.) *see* **Smillie, John**, **99b:32043**

Cegrell, Urban (*with* Kołodziej, Sławomir; Levenberg, Norman) Two problems on potential theory for unbounded sets. **99m:31015**

Diederich, Klas (*with* Herbort, G.; Michel, V.) Weights of holomorphic extension and restriction. (English summary) **99k:46036**

Edigarian, Armen On definitions of the pluricomplex Green function. (English summary) **99f:32039**

— (*with* Zwonek, Włodzimierz) On a symmetric pluricomplex Green function. (English summary) **99d:32031**

Gaussier, Hervé Tautness and complete hyperbolicity of domains in $\mathbf{C}^n$. (English summary) **99b:32039**

Heinzner, Peter The minimum principle from a Hamiltonian point of view. (English summary) **99c:32044**

Herbort, G. *see* **Diederich, Klas; et al.**, **99k:46036**

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Kołodziej, Sławomir A sufficient condition for solvability of the Dirichlet problem for the complex Monge-Ampère operator. (English summary) **99i:32019**

— *see also* **Błocki, Zbigniew; et al.**, **99f:32022** *and* **Cegrell, Urban; et al.**, **99m:31015**

Korevaar, J. (*with* Bos, L. P.) Characterization of algebraic curves by Chebyshev quadrature. (English summary) **99k:41049**

Lelong, Pierre Ensembles de contrôle dans un espace de Banach complexe pour les fonctions plurisousharmoniques. (English summary) [Control sets in a complex Banach space for plurisubharmonic functions] **99b:32047**

Levenberg, Norman *see* **Błocki, Zbigniew; et al.**, **99f:32022** *and* **Cegrell, Urban; et al.**, **99m:31015**

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Monterie, M. A. Capacities of certain Cantor sets. (English summary) **99h:31006**

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Smillie, John Complex dynamics in several variables. **99b:32043**

Zwonek, Włodzimierz *see* **Edigarian, Armen**, **99d:32031**

32F07 Complex Monge-Ampère operator

Błocki, Zbigniew (*with* Kołodziej, Sławomir; Levenberg, Norman) Extremal functions and equilibrium measures for Borel sets. (English summary) **99f:32022**

— On the regularity of the complex Monge-Ampère operator. (English summary) **99m:32018**
Cegrell, Urban Pluricomplex energy. **99h:32016**
Kołodziej, Sławomir The complex Monge-Ampère equation. **99h:32017**
— A sufficient condition for solvability of the Dirichlet problem for the complex Monge-Ampère operator. (English summary) **99i:32019**
— *see also* **Błocki, Zbigniew; et al., 99f:32022**
Levenberg, Norman *see* **Błocki, Zbigniew; et al., 99f:32022**
Tso, Kaising (*with* Zhu, Xi-Ping) An integrability condition for Monge-Ampère equations on a Kähler manifold. (English summary) **99b:32015**
Zhu, Xi-Ping *see* **Tso, Kaising, 99b:32015**

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Backlund, Ulf (*with* Persson, Leif) Separable maximal plurisubharmonic functions in two complex variables. (English summary) **99e:32018**
(Buzzard, Gregery T.) *see* **Smillie, John, 99b:32043**
Coman, Dan Integration by parts for currents and applications to the relative capacity and Lelong numbers. **99c:32006**
Kan, Su-Jen On the rigidity of non-positively curved Grauert tubes. **99i:32011**
Lelong, Pierre Remarks on pointwise multiplicities in complex spaces. **99f:32021**
Persson, Leif *see* **Backlund, Ulf, 99e:32018**
Rashkovskiĭ, A. Yu. Maximal plurisubharmonic functions associated with holomorphic mappings. (English summary) **99d:32020**
Schumacher, Georg Asymptotics of Kähler-Einstein metrics on quasi-projective manifolds and an extension theorem on holomorphic maps. **99g:32054**
Smillie, John Complex dynamics in several variables. **99b:32043**
Szőke, Róbert Adapted complex structures and Riemannian homogeneous spaces. (English summary) **99m:53093**
Zhu, Xiao Hua Nonexistence of Kähler-Einstein metrics and solutions of degenerate complex Monge-Ampère equations. (Chinese. Chinese summary) **99e:32051**

32F10 q-convexity, q-concavity

Abe, Makoto[2] On the union of 1-convex open sets. (English summary) **99b:32016**
Colţoiu, Mihnea On 1-convex manifolds with 1-dimensional exceptional set. **99k:32023**
Laurent-Thiébaut, C. (*with* Leiterer, J.) The Andreotti-Vesentini separation theorem and global homotopy representation. **99m:32019**
Leiterer, J. *see* **Laurent-Thiébaut, C., 99m:32019**
Vâjâitu, Viorel Invariance of q-completeness with corners under finite holomorphic surjections. **99j:32018**
— One-dimensional fibering over q-complete spaces. (English summary) **99i:32020**
— Cohomological q-convexity versus local q-completeness with corners. (English summary) **99e:32021**
— On increasing unions of q-complete manifolds. **99i:32021**

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Barkatou, Moulay-Youssef Some applications of a new integral formula for $\overline{\partial}_b$. (English summary) **99m:32005**
Colţoiu, Mihnea On the Oka-Grauert principle for 1-convex manifolds. **99c:32040**
Zhong, Tong De Homotopy formulas and $\overline{\partial}$-equations on q-convex domains in complex manifolds. (Chinese. English and Chinese summaries) **99d:32001**

32F15 Pseudoconvex domains

Diederich, Klas (*with* Ohsawa, Takeo) On pseudoconvex domains in $\mathbf{P}^n$. **99k:32024**
Domrina, A. V. An example of a strictly pseudoconvex domain, homeomorphic to a ball, to which a complex disk is attached from the outside. (Russian) **99e:32022**
Hamada, Hidetaka Complex manifolds which are exhausted by complete Kähler domains. (English summary) **99j:32019**
Kwon, Ern Gun *see* **Shon, Kwang Ho; et al., 99i:32022**
Lee, Sang Keun *see* **Shon, Kwang Ho; et al., 99i:32022**
Ohsawa, Takeo Two or three observations concerning pseudoconvex domains, especially domains in $\mathbf{P}^n$. (Japanese) (*see* **99f:32001**)
— *see also* **Diederich, Klas, 99k:32024**
Shi, Ji-huai Bergman type operators on a class of weakly pseudoconvex domains. (English summary) **99g:32026**
Shon, Kwang Ho (*with* Lee, Sang Keun; Kwon, Ern Gun) Pseudoconvexity of Riemann domains over a product of complex planes. (English summary) **99i:32022**
Tong, Wu The limit of a biholomorphic invariant on a class of bounded pseudoconvex domains. (Chinese. English and Chinese summaries) **99c:32020**

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Cao, Guang Fu (*with* Zhong, Chang Yong) Automorphism group of Toeplitz algebras on certain pseudoconvex domains. (English summary) **99m:47052**
Cumenge, Anne Estimées Lipschitz optimales dans les convexes de type fini. (English and French summaries) [Optimal Lipschitz estimates on convex domains of finite type] **99i:32002**
Diederich, Klas (*with* Herbort, G.) An alternative proof of a theorem by Boas-Straube-Yu. **99c:32034**
Henne, Benedikt Classes de Nevanlinna dans certains domaines strictement pseudoconvexes non lisses. (English and French summaries) [Nevanlinna classes in some non-smooth strictly pseudoconvex domains] **99k:32008**
Herbort, G. *see* **Diederich, Klas, 99c:32034**
Kajiwara, Joji (*with* Shon, Kwang Ho; Tsuji, Miki) Localization of global existence of holomorphic solutions of holomorphic differential equations with infinite-dimensional parameter. **99m:32039**
Kamimoto, Joe Singularities of the Bergman kernel for certain weakly pseudoconvex domains. (English summary) **99d:32029**
Kan, Su-Jen On the rigidity of non-positively curved Grauert tubes. **99i:32011**
Kiselman, Christer O. A differential inequality characterizing weak lineal convexity. **99c:32016**
Ren, Guang-bin (*with* Shi, Ji-huai) Gleason's problem in weighted Bergman space on egg domains. (English summary) **99f:32038**
Shi, Ji-huai *see* **Ren, Guang-bin, 99f:32038**
Shon, Kwang Ho *see* **Kajiwara, Joji; et al., 99m:32039**
Tie, Jingzhi The explicit solution of the $\overline{\partial}$-Neumann problem in a non-isotropic Siegel domain. (English summary) **99b:32021**
Tong, Wu *see* **Yin, Wei Ping, 99c:32004**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 99m:32039**
Webster, Sidney M. Real ellipsoids and double valued reflection in complex space. (English summary) **99g:32045**
Yin, Wei Ping (*with* Tong, Wu) Invariant Kähler metrics and curvatures on a class of pseudoconvex domains. (Chinese. English and Chinese summaries) **99c:32004**
— The Einstein-Kähler metrics with explicit forms on a class of egg domains. (English summary) **99i:32034**
Zhong, Chang Yong *see* **Cao, Guang Fu, 99m:47052**

32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [see also 35N15]

Adachi, Kenzō (*with* Cho, Hong Rae) Some Hölder estimates for $\overline{\partial}$ on convex domains in $\mathbf{C}^3$ with real analytic boundary. (English summary) **99b:32017**
— (*with* Hori, Hikaru) Note on the $\overline{\partial}$-problem on the complex ellipsoid. (English summary) **99b:32018**
Berndtsson, Bo Uniform estimates with weights for the $\overline{\partial}$-equation. (English summary) **99h:32018**
Bruna, Joaquim (*with* Charpentier, Philippe; Dupain, Yves) Zero varieties for the Nevanlinna class in convex domains of finite type in $\mathbf{C}^n$. **99e:32023**
Charpentier, Philippe *see* **Bruna, Joaquim; et al., 99e:32023**
Cho, Hong Rae *see* **Adachi, Kenzō, 99b:32017**
Christ, Michael (*with* Li, Song-Ying) On analytic solvability and hypoellipticity for $\overline{\partial}$ and $\overline{\partial}_b$. **99c:32021**
Dupain, Yves *see* **Bruna, Joaquim; et al., 99e:32023**
Fornæss, John Erik (*with* Gavosto, Estela A.) The Cauchy Riemann equation on singular spaces. **99c:32022**
Fu, Siqi (*with* Straube, Emil J.) Compactness of the $\overline{\partial}$-Neumann problem on convex domains. (English summary) **99h:32019**
Gavosto, Estela A. Hölder estimates for the $\overline{\partial}$-equation in some domains of finite type. (English summary) **99m:32020**
— *see also* **Fornæss, John Erik, 99c:32022**
Hefer, Torsten ★ Optimale Regularitätssätze für die $\overline{\partial}$-Gleichung auf gewissen konkaven und konvexen Modellgebieten. (German) [Optimal regularity theorems for the $\overline{\partial}$-equation in certain concave and convex model domains] **99g:32027**
Hori, Hikaru *see* **Adachi, Kenzō, 99b:32018**
Li, Song-Ying *see* **Christ, Michael, 99c:32021**
Michel, Joachim (*with* Shaw, Mei-Chi) Subelliptic estimates for the $\overline{\partial}$-Neumann operator on piecewise smooth strictly pseudoconvex domains. **99b:32019**
Reizner, Isabelle Analyticité globale pour $\overline{\partial}_b$ sur certaines hypersurfaces compactes de $\mathbf{C}^n$. (English and French summaries) [Global analyticity for $\overline{\partial}_b$ on certain compact hypersurfaces in $\mathbf{C}^n$] **99g:32028**
— Analyticité globale de la solution du problème $\overline{\partial}$-Neumann pour une classe de domaines de $\mathbf{C}^n$. (English and French summaries) [Global analyticity for the $\overline{\partial}$-Neumann problem on some domains of $\mathbf{C}^n$] **99b:32020**
Shaw, Mei-Chi *see* **Michel, Joachim, 99b:32019**
Straube, Emil J. *see* **Fu, Siqi, 99h:32019**
Tie, Jingzhi The explicit solution of the $\overline{\partial}$-Neumann problem in a non-isotropic Siegel domain. (English summary) **99b:32021**
Tolli, Filippo Failure of global regularity of $\overline{\partial}_b$ on a convex domain with only one flat point. (English summary) **99i:32023**
Wu, Deyun Sobolev and Hölder estimates for $\overline{\partial}$ on bounded convex domains in $\mathbf{C}^2$. **99d:32021**
Zampieri, Giuseppe Non-solvability of the tangential $\overline{\partial}_M$-systems. (English and Italian summaries) **99j:32020**
— L^2-estimates with Levi-singular weight, and existence for $\overline{\partial}$. (English summary) **99k:32025**

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Akahori, Takao Real analyticity of the canonical versal deformations of CR-structures. (English summary) **99k:32029**
Balabaev, V. E. A complex analogue of invariant elliptic Dezin systems. (Russian. Russian summary) **99m:35050**
Barkatou, Moulay-Youssef Some applications of a new integral formula for $\overline{\partial}_b$. (English summary) **99m:32005**
Delin, Henrik Pointwise estimates for the weighted Bergman projection kernel in $\mathbf{C}^n$, using a weighted L^2 estimate for the $\overline{\partial}$ equation. (English and French summaries) **99j:32027**
Epstein, Charles L. A relative index on the space of embeddable CR-structures. I. (English summary) **99a:32018a**
— A relative index on the space of embeddable CR-structures. II. (English summary) **99a:32018b**
Hamada, Hidetaka Complex manifolds which are exhausted by complete Kähler domains. (English summary) **99j:32019**
Hatziafratis, Telemachos On a class of $\overline{\partial}$-equations without solutions. (English summary) **99k:32003**
Honda, Tatsuhiro The $\overline{\partial}$-problem on an infinite-dimensional domain. (English summary) **99k:46080**
Iwasaki, Chisato A new construction of an asymptotics for the fundamental solution for parabolic initial-boundary problem and its application to the $\overline{\partial}$-Neumann problem. **99c:58157**
Kamimoto, Joe On an integral of Hardy and Littlewood. **99c:58158**

Lempert, László The Cauchy-Riemann equations in infinite dimensions. (English summary) **99k:46081**
Ma, Zhong Tai (*with* Zhong, Tong De) Integral representations and extension theorems for solutions of Cauchy-Riemann equations. (Chinese. English and Chinese summaries) **99g:32003**
Zhong, Tong De $\overline{\partial}$-equation on complex manifolds. (English and Chinese summaries) **99i:32004**
— Koppelman-Leray-Norguet formula for a local q-concave wedge in Stein manifolds. (English summary) **99i:32005**
— Homotopy formulas and $\overline{\partial}$-equations on q-convex domains in complex manifolds. (Chinese. English and Chinese summaries) **99d:32001**
— *see also* **Ma, Zhong Tai, 99g:32003**

32F25 Real submanifolds in complex manifolds

Anisova, E. G. Null-quadrics of codimension 4 in the space $\mathbf{C}^7$. (Russian. Russian summary) **99g:32029**
Baouendi, Mohamed Salah (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) Parametrization of local biholomorphisms of real analytic hypersurfaces. **99b:32022**
— (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) CR automorphisms of real analytic manifolds in complex space. **99i:32024**
Beloshapka, Valerii K. Homogeneous real hypersurfaces in $\mathbf{C}^2$. (Russian) **99e:32024**
Černe, Miran Analytic varieties with boundaries in totally real tori. **99e:32025**
Ebenfelt, Peter *see* **Baouendi, Mohamed Salah; et al., 99b:32022** *and* **99i:32024**
Globevnik, Josip Perturbing analytic discs attached to maximal real submanifolds of $\mathbf{C}^N$. (English summary) **99b:32023**
Gong, Xianghong On totally real spheres in complex space. **99c:32023**
Guzeev, R. N. (*with* Loboda, A. V.) Holomorphic invariants of logarithmic spirals. (Russian) **99h:32020a**
— (*with* Loboda, A. V.) Errata: "Holomorphic invariants of logarithmic spirals". (Russian) **99h:32020b**
Han, Chong-Kyu Complete differential system for the mappings of CR manifolds of nondegenerate Levi forms. **99b:32024**
Labovskiĭ, A. S. On the dimension of the group of biholomorphic automorphisms of real-analytic hypersurfaces. (Russian. Russian summary) **99f:32023**
Loboda, A. V. On the sphericity of rigid hypersurfaces in $\mathbf{C}^2$. (Russian. Russian summary) **99g:32030**
— *see also* **Guzeev, R. N., 99h:32020a** *and* **99h:32020b**
Mir, Nordine Sur l'analyticité des germes d'applications CR entre hypersurfaces analytiques réelles dans $\mathbf{C}^{N+1}$. (English and French summaries) [On the analytic extension of germs of CR mappings between real analytic hypersurfaces in $\mathbf{C}^{N+1}$] **99k:32026**
Paolantoni, Victoria Subaveraging estimates for CR functions on a hypersurface of $\mathbf{C}^n$. (English summary) **99j:32021**
Rothschild, Linda Preiss *see* **Baouendi, Mohamed Salah; et al., 99b:32022** *and* **99i:32024**
Schmalz, Gerd Über die Automorphismen einer streng pseudokonvexen CR-Mannigfaltigkeit der Kodimension 2 im $\mathbf{C}^4$. (German summary) [On the automorphisms of a strictly pseudoconvex CR manifold of codimension 2 in $\mathbf{C}^4$] **99k:32027**
Wang, Wei[11] Normal forms for some degenerate real analytic hypersurfaces in $\mathbf{C}^2$. (Chinese. English and Chinese summaries) **99e:32026**
Webster, Sidney M. A complex Frobenius problem. **99b:32025**

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Baouendi, Mohamed Salah (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) Algebraicity of holomorphic mappings between real algebraic sets in $\mathbf{C}^n$. **99b:32030**
Barkatou, Moulay-Youssef Formules locales de type Martinelli-Bochner-Koppelman sur des variétés CR. (English summary) [Local Martinelli-Bochner-Koppelman formulas on CR manifolds] **99k:32001**
Boutet de Monvel, Louis (*with* Iordan, A.) Real analytic maximum-modulus sets. (English summary) **99k:32019**
Černe, Miran Regularity of discs attached to a submanifold of $\mathbf{C}^n$. (English summary) **99c:32025**
Ebenfelt, Peter Holomorphic mappings between real analytic submanifolds in complex space. **99h:32026**
— *see also* **Baouendi, Mohamed Salah; et al., 99b:32030**
Ezhov, Vladimir V. Triviality of scalar linear type isotropy subgroup by passing to an alternative canonical form of a hypersurface. (English summary) **99j:32005**
Fourlinnie, Hervé Version Carleman du théorème de l'"edge of the wedge". (English and French summaries) [Carleman version of the "edge of the wedge" theorem] **99k:32010**
Hayashimoto, Atsushi On the relations between the holomorphic extendability theorems and the finiteness properties. **99j:32014**
Hill, C. Denson (*with* Nacinovich, Mauro) Simplicially q-pseudoconcave CR manifolds and wedge decomposition. **99k:32012**
Hind, R. Filling by holomorphic disks with weakly pseudoconvex boundary conditions. **99a:58018**
Iordan, A. *see* **Boutet de Monvel, Louis, 99k:32019**
Manfrin, Renato (*with* Scalari, Alberto; Zampieri, Giuseppe) Propagation along complex curves on a hypersurface. **99c:32013**
Medori, C. (*with* Nacinovich, Mauro) Levi-Tanaka algebras and homogeneous CR manifolds. (English summary) **99d:32007**
Nacinovich, Mauro *see* **Medori, C., 99d:32007** *and* **Hill, C. Denson, 99k:32012**
Rothschild, Linda Preiss *see* **Baouendi, Mohamed Salah; et al., 99b:32030**
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Zampieri, Giuseppe *see* **Manfrin, Renato; et al., 99c:32013**

32F30 Pseudoconvex manifolds

Items with secondary classifications in 32F30

Bland, John (*with* Epstein, Charles L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. (English summary) **99f:32025**
Bogomolov, Fedor A. (*with* de Oliveira, Bruno) Stein small deformations of strictly pseudoconvex surfaces. (English summary) **99a:32015**
Boutet de Monvel, Louis (*with* Iordan, A.) Peak curves in weakly pseudoconvex boundaries in $\mathbf{C}^2$. (English summary) **99e:32016**
Epstein, Charles L. *see* **Bland, John, 99f:32025**
Henkin, Gennadi (*with* Leiterer, J.) The Oka-Grauert principle without induction over the base dimension. **99f:32048**
Iordan, A. *see* **Boutet de Monvel, Louis, 99e:32016**
Leiterer, J. *see* **Henkin, Gennadi, 99f:32048**
Luk, Hing Sun (*with* Yau, Stephen Shing Toung) Counterexample to boundary regularity of a strongly pseudoconvex CR submanifold: an addendum to the paper of Harvey-Lawson. **99j:32006**
Michel, Joachim (*with* Shaw, Mei-Chi) C^∞-regularity of solutions of the tangential CR-equations on weakly pseudoconvex manifolds. **99g:32032**
de Oliveira, Bruno *see* **Bogomolov, Fedor A., 99a:32015**
Shaw, Mei-Chi *see* **Michel, Joachim, 99g:32032**
Yau, Stephen Shing Toung *see* **Luk, Hing Sun, 99j:32006**

32F40 CR structures, (tangential) CR operators and generalizations

Cordaro, Paulo D. Global hypoellipticity for $\overline{\partial}_b$ on certain compact three-dimensional CR manifolds. (English summary) **99a:32014**
Han, Chong-Kyu (*with* Yoo, Jae-Nyun) A method of prolongation of tangential Cauchy-Riemann equations. **99d:32022**
Kuranishi, Masatake On a priori estimate on a manifold with singularity on the boundary. **99g:32031**
Le, Anbo CR circle bundles and Mizohata structures. (English summary) **99h:32021**
Michel, Joachim (*with* Shaw, Mei-Chi) C^∞-regularity of solutions of the tangential CR-equations on weakly pseudoconvex manifolds. **99g:32032**
Parmeggiani, Alberto $\overline{\partial}_b$-operators on Cauchy-Riemann manifolds and almost-positivity of pseudodifferential operators. (English summary) **99k:32028**
Shaw, Mei-Chi *see* **Michel, Joachim, 99g:32032**
Tumanov, Alexander Analytic discs and the extendibility of CR functions. **99f:32024**
Yoo, Jae-Nyun *see* **Han, Chong-Kyu, 99d:32022**
Zampieri, Giuseppe Extension of submanifolds of $\mathbf{C}^n$ preserving the number of negative Levi eigenvalues. (English summary) **99g:32033**

Items with secondary classifications in 32F40

Boggess, Al (*with* Glenn, Laura Ann; Nagel, Alexander) Model rigid CR submanifolds of CR dimension 1. (English summary) **99g:32011**
Chirka, E. M. (*with* Rea, C.) Differentiable CR mappings and CR orbits. **99f:32015**
Epstein, Charles L. A relative index on the space of embeddable CR-structures. I. (English summary) **99a:32018a**
— A relative index on the space of embeddable CR-structures. II. (English summary) **99a:32018b**
Glenn, Laura Ann *see* **Boggess, Al; et al., 99g:32011**
Han, Chong-Kyu Complete differential system for the mappings of CR manifolds of nondegenerate Levi forms. **99b:32024**
Haslinger, Friedrich Bergman and Hardy spaces on model domains. **99f:32004**
Jöricke, Burglind Deformation of CR-manifolds, minimal points and CR-manifolds with the microlocal analytic extension property. (English summary) **99f:32026**
Nagel, Alexander *see* **Boggess, Al; et al., 99g:32011**
Rea, C. *see* **Chirka, E. M., 99f:32015**
Stanton, Nancy K. Homogeneous CR submanifolds in $\mathbf{C}^n$. **99d:32008**
Villarroel, Yuli Higher order contact of real curves in a real hyperquadric. II. (English summary) **99m:53034**
Weinstein, Alan Some questions about the index of quantized contact transformations. **99h:58188**
Wu, Deyun Sobolev and Hölder estimates for $\overline{\partial}$ on bounded convex domains in $\mathbf{C}^2$. **99d:32021**
Youssfi, E. H. Harmonic analysis on conelike bodies and holomorphic functions on tube domains. (English summary) **99m:43004**

32F99 None of the above, but in this section

Dufresnoy, Alain Sur le problème de Bennequin: un contre-exemple (d'après Alexander). [On the Bennequin problem: a counterexample (following Alexander)] (*see* **99b:53003**)
Sekerin, A. B. A support theorem for the complex Radon transform. (Russian) **99b:32026**
Tomassini, Giuseppe Geometric properties of the solutions of Levi equations in $\mathbf{C}^2$. (Italian) **99i:32025**
Witte, Jörg Integral representation in $\mathbf{C}^n$ by a generalized Riemann function. (English summary) **99g:32034**

Items with secondary classifications in 32F99

Alexandersson, Lars On holomorphic factorization and meromorphic selectors. (English summary) **99c:30069**

32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

Bogomolov, Fedor A. (*with* de Oliveira, Bruno) Stein small deformations of strictly pseudoconvex surfaces. (English summary) **99a:32015**
Douady, Adrien Le problème des modules pour les variétés analytiques complexes (d'après Masatake Kuranishi). [The moduli problem for complex-analytic manifolds (after Masatake Kuranishi)] (*see* **99f:00041**)

Harris, Adam Singular loci in holomorphic families. (English summary) **99e:32027a**
— Remark on the article: "Singular loci in holomorphic families". **99e:32027b**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Rigidity of irreducible Hermitian symmetric spaces of the compact type under Kähler deformation. **99b:32027**
Mok, Ngaiming *see* **Hwang, Jun-Muk**, **99b:32027**
de Oliveira, Bruno *see* **Bogomolov, Fedor A.**, **99a:32015**

Items with secondary classifications in 32G05

Avram, A. C. (*with* Kreuzer, Maximilian; Mandelberg, Michael; Skarke, Harald) The web of Calabi-Yau hypersurfaces in toric varieties. (English summary) **99a:14056**
Bartocci, Claudio (*with* Bruzzo, Ugo; Hernández Ruipérez, Daniel; Muñoz Porras, José María) Mirror symmetry on $K3$ surfaces via Fourier-Mukai transform. (English summary) **99f:14046**
Bruzzo, Ugo *see* **Bartocci, Claudio; et al.**, **99f:14046**
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32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

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32G34 Moduli and deformations for ordinary differential equations [see also 34A20]

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Roose, Frederik *see* **Craps, Ben; et al., 99e:53061**
Sato, Hitoshi Mirror symmetry and the web of Landau-Ginzburg string vacua. (English summary) **99a:32039**
Sharpe, Eric Extremal transitions in heterotic string theory. (English summary) **99c:81211**
Stasheff, James D. *see* **Kimura, Takashi[2]; et al., 99f:14029**
Troost, Walter *see* **Craps, Ben; et al., 99e:53061**
Vafa, Cumrun *see* **Hori, Kentaro; et al., 99a:81140** *and* **Klemm, Albrecht Otto; et al., 99a:81145**
Van Proeyen, Antoine *see* **Craps, Ben; et al., 99e:53061**
Voronov, Alexander A. *see* **Kimura, Takashi[2]; et al., 99f:14029**
Warner, N. P. *see* **Minahan, Joseph A.; et al., 99i:81197**
Xiong, Chuan-Sheng *see* **Eguchi, Tohru, 99i:14033**
Zwiebach, Barton New moduli spaces from string background independence consistency conditions. (English summary) **99a:81159**
— Building string field theory around non-conformal backgrounds. (English summary) **99a:81160**
— Oriented open-closed string theory revisited. (English summary) **99i:81207**

32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

Baouendi, Mohamed Salah (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) Algebraicity of holomorphic mappings between real algebraic sets in $\mathbf{C}^n$. **99b:32030**
Bracci, Filippo Common fixed points of commuting holomorphic maps in the unit ball of $\mathbf{C}^n$. (English summary) **99f:32034**
Chen, Yu Qing A note on holomorphic maps with unipotent Jacobian matrices. (English summary) **99j:32026**
Curt, Paula A univalence criterion for holomorphic mappings in $\mathbf{C}^n$. **99b:32031**
— Some classes of differential subordinations in several complex variables implying functions with positive real part. I. **99b:32032**
— Some classes of differential subordinations in several complex variables implying functions with positive real parts. II. **99b:32033**
— A Marx-Strohhäcker theorem in several complex variables. **99c:32031**
— (*with* Varga, Csaba) Jack, Miller and Mocanu lemma for holomorphic mappings in $\mathbf{C}^n$. (English summary) **99m:32023**
Ebenfelt, Peter Holomorphic mappings between real analytic submanifolds in complex space. **99h:32026**
— *see also* **Baouendi, Mohamed Salah; et al., 99b:32030**
Globevnik, Josip A bounded domain in $\mathbf{C}^N$ which embeds holomorphically into $\mathbf{C}^{N+1}$. **99b:32034**
Gong, Sheng (*with* Yu, Qihuang; Zheng, Xuean) The Schwarzian derivative in several complex variables. II. (English summary) **99b:32035**
— (*with* Zheng, Xuean; Yu, Qihuang) The Schwarzian derivative in several complex variables. III. (English summary) **99g:32039**
Hamada, Hidetaka The growth theorem of convex mappings on the unit ball in $\mathbf{C}^n$. (English summary) **99f:32035**
Kohr, Gabriela Certain partial differential inequalities and applications for holomorphic mappings defined on the unit ball of $\mathbf{C}^n$. (English summary) **99a:32029**
— (*with* Kohr-Ile, Mirela) On some subclasses of holomorphic mappings defined on the unit ball in $\mathbf{C}^n$. I. (English summary) **99g:32040**
— On some sufficient conditions of almost starlikeness of order $1/2$ in $\mathbf{C}^n$. (English summary) **99g:32041**
— (*with* Liczberski, Piotr) On some application of a generalization of Jack-Miller-Mocanu lemma in $\mathbf{C}^n$. (English summary) **99c:32032**
— On some differential inequalities for holomorphic mappings in several complex variables. (English summary) **99g:32042**
— On some best bounds for coefficients of several subclasses of biholomorphic mappings in $\mathbf{C}^n$. (English summary) **99k:32038**
— On some alpha convex mappings on the unit ball of $\mathbf{C}^n$. (English summary) **99f:32036**
— Certain sufficient conditions of injectivity in $\mathbf{C}^n$. **99g:32043**
Kohr-Ile, Mirela *see* **Kohr, Gabriela, 99g:32040**
Liczberski, Piotr *see* **Kohr, Gabriela, 99c:32032**
Liu, Tai Shun (*with* Ren, Guang-bin) Decomposition theorem of normalized biholomorphic convex mappings. (English summary) **99e:32034**
— (*with* Ren, Guang-bin) Growth theorem of convex mappings on bounded convex circular domains. (English summary) **99c:32033**
Mazur, Tomasz Recurrence theorem for biholomorphic mappings. (English summary) **99d:32028**
Pfaltzgraff, John A. Distortion of locally biholomorphic maps of the n-ball. (English summary) **99a:32030**
Ren, Guang-bin *see* **Liu, Tai Shun, 99c:32033** *and* **99e:32034**
Roper, Kevin A. (*with* Suffridge, Ted J.) Convexity properties of holomorphic mappings in $\mathbf{C}^n$. (English summary) **99h:32027**
Rothschild, Linda Preiss *see* **Baouendi, Mohamed Salah; et al., 99b:32030**
Suffridge, Ted J. *see* **Roper, Kevin A., 99h:32027**
Varga, Csaba *see* **Curt, Paula, 99m:32023**
Yu, Qihuang *see* **Gong, Sheng; et al., 99b:32035** *and* **99g:32039**
Zheng, Xuean *see* **Gong, Sheng; et al., 99b:32035** *and* **99g:32039**
Zhu, Yu Can Biholomorphic convex mappings in B_p. (Chinese. Chinese summary) **99m:32024**

Items with secondary classifications in 32H02

Baouendi, Mohamed Salah (*with* Ebenfelt, Peter; Rothschild, Linda Preiss) Parametrization of local biholomorphisms of real analytic hypersurfaces. **99b:32022**
Beloshapka, Valerii K. Local invariants and exclusions on mappings of CR-manifolds. (Russian) **99e:32011**
Chirka, E. M. (*with* Rea, C.) Differentiable CR mappings and CR orbits. **99f:32015**
Dini, G. (*with* Primicerio, Angela Selvaggi) Localization principle of automorphisms on generalized pseudoellipsoids. (English summary) **99m:32032**
Ebenfelt, Peter *see* **Baouendi, Mohamed Salah; et al., 99b:32022**
Ezhov, Vladimir V. Triviality of scalar linear type isotropy subgroup by passing to an alternative canonical form of a hypersurface. (English summary) **99j:32005**
Hakim, Monique Analytic transformations of $(\mathbf{C}^p, 0)$ tangent to the identity. **99a:32036**
Hamada, Hidetaka (*with* Honda, Tatsuhiro) Holomorphic maps into complex ellipsoids which are Kobayashi isometries at one point. (English summary) **99e:32037**
— (*with* Yasuoka, Takashi) A general Schwarz lemma on complete Kähler manifolds. (English summary) **99i:32012**
Honda, Tatsuhiro *see* **Hamada, Hidetaka, 99e:32037**
Huang, Xiaojun (*with* Ji, Shanyu) Global holomorphic extension of a local map and a Riemann mapping theorem for algebraic domains. **99d:32013**
Ji, Shanyu *see* **Huang, Xiaojun, 99d:32013**

Kim, Kang-Tae (*with* Krantz, Steven G.) A crash course in the function theory of several complex variables. (English summary) **99g:32002**
Krantz, Steven G. *see* **Kim, Kang-Tae**, **99g:32002**
Ourimi, Nabil Applications holomorphes propres entre certains domaines bornés de $\mathbf{C}^n$. (English and French summaries) [Proper holomorphic mappings between certain domains in $\mathbf{C}^n$] **99k:32044**
Primicerio, Angela Selvaggi *see* **Dini, G.**, **99m:32032**
Rea, C. *see* **Chirka, E. M.**, **99f:32015**
Rothschild, Linda Preiss *see* **Baouendi, Mohamed Salah; et al.**, **99b:32022**
Yasuoka, Takashi *see* **Hamada, Hidetaka**, **99i:32012**

32H04 Meromorphic mappings

Items with secondary classifications in 32H04

Favre, Charles Points périodiques d'applications birationnelles de $\mathbf{P}^2$. (English and French summaries) [Periodic points of birational mappings of $\mathbf{P}^2$] **99i:32031**

32H10 Bergman kernel function, representative domains

Barletta, Elisabetta (*with* Dragomir, Sorin) On boundary behaviour of symplectomorphisms. **99k:32039**
— (*with* Dragomir, Sorin) On the Djrbashian kernel of a Siegel domain. (English summary) **99a:32031**
Barrett, David E. The Bergman projection on sectorial domains. (English summary) **99b:32036**
Bekolle, David (*with* Temgoua Kagou, Anatole) Molecular decompositions and interpolation. (English summary) **99e:32035**
Boas, Harold P. (*with* Fu, Siqi; Straube, Emil J.) The Bergman kernel function: explicit formulas and zeroes. (English summary) **99f:32037**
Delin, Henrik Pointwise estimates for the weighted Bergman projection kernel in $\mathbf{C}^n$, using a weighted L^2 estimate for the $\overline{\partial}$ equation. (English and French summaries) **99j:32027**
Diederich, Klas (*with* Herbort, G.) An alternative proof of a theorem by Boas-Straube-Yu. **99c:32034**
Dragomir, Sorin *see* **Barletta, Elisabetta**, **99a:32031** *and* **99k:32039**
Francsics, Gábor (*with* Hanges, Nicholas) Analytic regularity for the Bergman kernel. (English summary) **99j:32028**
Fu, Siqi *see* **Boas, Harold P.; et al.**, **99f:32037**
Hanges, Nicholas *see* **Francsics, Gábor**, **99j:32028**
Herbort, G. *see* **Diederich, Klas**, **99c:32034**
Kamimoto, Joe Asymptotic expansion of the Bergman kernel for weakly pseudoconvex tube domains in $\mathbf{C}^2$. (English and French summaries) **99j:32029**
— Singularities of the Bergman kernel for certain weakly pseudoconvex domains. (English summary) **99d:32029**
Ligocka, Ewa Remarks on the Bergman kernel function of a worm domain. (English summary) **99d:32030**
Pflug, P. (*with* Youssfi, E. H.) The Lu Qi-Keng conjecture fails for strongly convex algebraic domains. (English summary) **99k:32040**
Ren, Guang-bin (*with* Shi, Ji-huai) Gleason's problem in weighted Bergman space on egg domains. (English summary) **99f:32038**
Shi, Ji-huai *see* **Ren, Guang-bin**, **99f:32038**
Straube, Emil J. *see* **Boas, Harold P.; et al.**, **99f:32037**
Temgoua Kagou, Anatole *see* **Bekolle, David**, **99e:32035**
To, Wing-Keung Weighted L^2-cohomology of bounded domains with smooth compact quotients. **99g:32044**
Uchida, Motoo Kashiwara's microlocal analysis of the Bergman kernel for domains with corner. (English summary) **99e:32036**
Youssfi, E. H. *see* **Pflug, P.**, **99k:32040**

Items with secondary classifications in 32H10

Diederich, Klas (*with* Herbort, G.; Michel, V.) Weights of holomorphic extension and restriction. (English summary) **99k:46036**
Haslinger, Friedrich Bergman and Hardy spaces on model domains. **99f:32004**
Herbort, G. *see* **Diederich, Klas; et al.**, **99k:46036**
Krötz, Bernhard On Hardy and Bergman spaces on complex Ol'shanskiĭ semigroups. **99h:22009**
Mazur, Tomasz Recurrence theorem for biholomorphic mappings. (English summary) **99d:32028**
Michel, V. *see* **Diederich, Klas; et al.**, **99k:46036**
Shi, Ji-huai Bergman type operators on a class of weakly pseudoconvex domains. (English summary) **99g:32026**
Tong, Wu The limit of a biholomorphic invariant on a class of bounded pseudoconvex domains. (Chinese. English and Chinese summaries) **99c:32020**

32H15 Invariant metrics and pseudodistances

Balogh, Zoltan M. (*with* Leuenberger, Christoph) Higher-dimensional Riemann maps. (English summary) **99h:32028**
Dolbeault, Pierre (*with* Kalina, Jerzy; Ławrynowicz, Julian) Introduction to almost hyperbolic pseudodistances via intermediate dimensional-invariant measures. (English summary) **99m:32025**
Edigarian, Armen On definitions of the pluricomplex Green function. (English summary) **99f:32039**
— (*with* Zwonek, Włodzimierz) On a symmetric pluricomplex Green function. (English summary) **99d:32031**
Hamada, Hidetaka (*with* Honda, Tatsuhiro) Holomorphic maps into complex ellipsoids which are Kobayashi isometries at one point. (English summary) **99e:32037**
Honda, Tatsuhiro *see* **Hamada, Hidetaka**, **99e:32037**
Kalina, Jerzy *see* **Dolbeault, Pierre; et al.**, **99m:32025**
Ławrynowicz, Julian *see* **Dolbeault, Pierre; et al.**, **99m:32025**
Leuenberger, Christoph *see* **Balogh, Zoltan M.**, **99h:32028**
Webster, Sidney M. Real ellipsoids and double valued reflection in complex space. (English summary) **99g:32045**
Yin, Wei Ping A comparison theorem for the Bergman metrics and the Kobayashi metrics on a class of pseudoconvex domains. (Chinese. English and Chinese summaries) **99e:32038**
Zwonek, Włodzimierz On an example concerning the Kobayashi pseudodistance. (English summary) **99a:32032**
— *see also* **Edigarian, Armen**, **99d:32031**

Items with secondary classifications in 32H15

Abate, Marco (*with* Patrizio, Giorgio) Isometries of the Teichmüller metric. (English summary) **99k:32036**
— (*with* Patrizio, Giorgio) Convex-like properties of the Teichmüller metric. (English summary) **99k:32035**
Apanasov, Boris Canonical homeomorphisms in Heisenberg groups that are induced by isomorphisms of discrete subgroups in PU(n, 1). (Russian) **99c:53050**
Bracci, Filippo Commuting holomorphic maps in strongly convex domains. (English summary) **99k:32045**
Do Duc Thai (*with* Thomas, Pascal J.) $\mathbf{D}^*$-extension property without hyperbolicity. (English summary) **99j:32012**
Edigarian, Armen (*with* Zwonek, Włodzimierz) Invariance of the pluricomplex Green function under proper mappings with applications. (English summary) **99d:32017**
Gaussier, Hervé Tautness and complete hyperbolicity of domains in $\mathbf{C}^n$. (English summary) **99b:32039**
Gigante, Giuliana A remark on Brody's theorem on homogeneous complex manifolds. (Italian summary) **99f:32040**
Kim, Kang-Tae (*with* Krantz, Steven G.) A crash course in the function theory of several complex variables. (English summary) **99g:32002**
Kobayashi, Shoshichi ★ Hyperbolic complex spaces. **99m:32026**
Krantz, Steven G. *see* **Kim, Kang-Tae**, **99g:32002**
Mateljević, M. Holomorphic fixed point theorem on Riemann surfaces. **99m:30091**
Patrizio, Giorgio *see* **Abate, Marco**, **99k:32035** *and* **99k:32036**
Thomas, Pascal J. *see* **Do Duc Thai**, **99j:32012**
To, Wing-Keung Weighted L^2-cohomology of bounded domains with smooth compact quotients. **99g:32044**
Tong, Wu *see* **Yin, Wei Ping**, **99c:32004**
Winkelmann, Jörg A remark on spaces of holomorphic maps to taut manifolds. (English summary) **99f:32043**
Yin, Wei Ping (*with* Tong, Wu) Invariant Kähler metrics and curvatures on a class of pseudoconvex domains. (Chinese. English and Chinese summaries) **99c:32004**
Zwonek, Włodzimierz On hyperbolicity of pseudoconvex Reinhardt domains. (English summary) **99m:32027**
— *see also* **Edigarian, Armen**, **99d:32017**

32H20 Hyperbolic complex manifolds

Basmajian, Ara (*with* Miner, Robert) Discrete subgroups of complex hyperbolic motions. **99e:32039**
Choi, Ki Seong Injective hyperbolicity of product domain. (English summary) **99e:32040**
Demailly, Jean-Pierre Algebraic criteria for Kobayashi hyperbolic projective varieties and jet differentials. (English summary) **99b:32037**
— Variétés projectives hyperboliques et équations différentielles algébriques. [Hyperbolic projective varieties and algebraic differential equations] **99a:32033**
Dethloff, G. (*with* Zaidenberg, Mikhail G.) Plane curves with hyperbolic and C-hyperbolic complements. **99b:32038**
Gaussier, Hervé Tautness and complete hyperbolicity of domains in $\mathbf{C}^n$. (English summary) **99b:32039**
Gigante, Giuliana A remark on Brody's theorem on homogeneous complex manifolds. (Italian summary) **99f:32040**
Kobayashi, Shoshichi ★ Hyperbolic complex spaces. **99m:32026**
Miner, Robert *see* **Basmajian, Ara**, **99e:32039**
Parker, John R. Uniform discreteness and Heisenberg translations. **99f:32041**
— On the volumes of cusped, complex hyperbolic manifolds and orbifolds. **99i:32030**
Tu, Zhen-han Normality criteria for families of holomorphic mappings of several complex variables into $\mathbf{P}^N(\mathbf{C})$. (English summary) **99f:32042**
Winkelmann, Jörg A remark on spaces of holomorphic maps to taut manifolds. (English summary) **99f:32043**
Zaidenberg, Mikhail G. *see* **Dethloff, G.**, **99b:32038**
Zwonek, Włodzimierz On hyperbolicity of pseudoconvex Reinhardt domains. (English summary) **99m:32027**

Items with secondary classifications in 32H20

Balogh, Zoltan M. (*with* Leuenberger, Christoph) Higher-dimensional Riemann maps. (English summary) **99h:32028**
Ha Huy Khoai p-adic hyperbolic surfaces. **99c:32051**
Ji, Lizhen Metric compactifications of locally symmetric spaces. (English summary) **99f:32045**
Leuenberger, Christoph *see* **Balogh, Zoltan M.**, **99h:32028**
Mateljević, M. Holomorphic fixed point theorem on Riemann surfaces. **99m:30091**
Noguchi, Junjiro Recent topics in the theory of holomorphic curves. (English summary) **99a:32034**
— Value distribution theory of holomorphic mappings. **99k:32042**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Aihara, Yoshihiro Finiteness theorems for meromorphic mappings. **99j:32030**
McQuillan, Michael Diophantine approximations and foliations. (English summary) **99m:32028**

Items with secondary classifications in 32H25

Ha Huy Khoai p-adic hyperbolic surfaces. **99c:32051**
Kobayashi, Shoshichi ★ Hyperbolic complex spaces. **99m:32026**
Nguyen Thanh Quang p-adic hyperbolicity of the complement of hyperplanes in $P^n(C_p)$. (English summary) **99e:32060**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Ashline, George Lawrence The defect relation of meromorphic maps on parabolic manifolds. (English summary) **99k:32041**
Fujimoto, Hirotaka Uniqueness problem with truncated multiplicities in value distribution theory. (English summary) **99m:32029**
Mori, Seiki Elimination of defects of meromorphic mappings of $\mathbf{C}^m$ into $P^n(\mathbf{C})$. (English summary) **99m:32030**
Noguchi, Junjiro Recent topics in the theory of holomorphic curves. (English summary) **99a:32034**
— Value distribution theory of holomorphic mappings. **99k:32042**
Ounaies, Myriam Estimations du type Nevanlinna pour les applications non dégénérées de $\mathbf{C}^n$ dans $\mathbf{C}^n$. [Nevanlinna estimates of nondegenerate mappings from $\mathbf{C}^n$ into $\mathbf{C}^n$] **99k:32043**
Rashkovskiĭ, A. Yu. Flows associated with holomorphic almost periodic mappings. (Russian. English, Russian and Ukrainian summaries) **99b:32040**
Toda, Nobushige On the number of asymptotic points of holomorphic curves. **99m:32031**

Items with secondary classifications in 32H30

Cherry, William A. A survey of Nevanlinna theory over non-Archimedean fields. (English summary) **99a:32047**
Kobayashi, Shoshichi ★ Hyperbolic complex spaces. **99m:32026**
McQuillan, Michael Diophantine approximations and foliations. (English summary) **99m:32028**
Ru, Min Nevanlinna theory and its relation with Diophantine approximation. (English summary) **99b:32003**
Tu, Zhen-han Normality criteria for families of holomorphic mappings of several complex variables into $P^N(\mathbf{C})$. (English summary) **99f:32042**

32H35 Proper mappings, finiteness theorems

D'Angelo, John P. Invariant holomorphic mappings. (English summary) **99c:32035**
Dini, G. (*with* Primicerio, Angela Selvaggi) Localization principle of automorphisms on generalized pseudoellipsoids. (English summary) **99m:32032**
Kim, Kang-Tae (*with* Spiro, Andrea F.) Moduli space of ramified holomorphic coverings of B^2. (English summary) **99m:32033**
Landucci, Mario Γ-invariant polynomials and proper maps. (English summary) **99h:32029**
Ourimi, Nabil Applications holomorphes propres entre certains domaines bornés de $\mathbf{C}^n$. (English and French summaries) [Proper holomorphic mappings between certain domains in $\mathbf{C}^n$] **99k:32044**
Primicerio, Angela Selvaggi *see* **Dini, G., 99m:32032**
Spiro, Andrea F. Classification of proper holomorphic maps between Reinhardt domains in $\mathbf{C}^2$. **99h:32030**
— *see also* **Kim, Kang-Tae, 99m:32033**

Items with secondary classifications in 32H35

Berteloot, F. (*with* Loeb, Jean-Jacques) Spherical hypersurfaces and Lattès rational maps. (English and French summaries) **99e:32043**
Edigarian, Armen (*with* Zwonek, Włodzimierz) Invariance of the pluricomplex Green function under proper mappings with applications. (English summary) **99d:32017**
Gavosto, Estela A. Hölder estimates for the $\overline{\partial}$-equation in some domains of finite type. (English summary) **99m:32020**
Han, Chong-Kyu Complete differential system for the mappings of CR manifolds of nondegenerate Levi forms. **99b:32024**
Loeb, Jean-Jacques *see* **Berteloot, F., 99e:32043**
Wong, Bun An application of Einstein Kähler metrics to proper holomorphic mappings between pseudoconvex domains. (English summary) **99c:32041**
Zwonek, Włodzimierz *see* **Edigarian, Armen, 99d:32017**

32H40 Boundary regularity of holomorphic maps

Abate, Marco The Julia-Wolff-Carathéodory theorem in polydisks. (English summary) **99e:32041**
Bracci, Filippo Commuting holomorphic maps in strongly convex domains. (English summary) **99k:32045**

Items with secondary classifications in 32H40

Chen, So-Chin (*with* Jang, Shih-Biau) An extension of H. Cartan's theorem. (English summary) **99j:32037**
Dini, G. (*with* Primicerio, Angela Selvaggi) Localization principle of automorphisms on generalized pseudoellipsoids. (English summary) **99m:32032**
Jang, Shih-Biau *see* **Chen, So-Chin, 99j:32037**
Ligocka, Ewa Remarks on the Bergman kernel function of a worm domain. (English summary) **99d:32030**
Merker, Joël (*with* Meylan, Francine) On the Schwarz symmetry principle in a model case. (English summary) **99f:32020**
Meylan, Francine *see* **Merker, Joël, 99f:32020**
Ourimi, Nabil Applications holomorphes propres entre certains domaines bornés de $\mathbf{C}^n$. (English and French summaries) [Proper holomorphic mappings between certain domains in $\mathbf{C}^n$] **99k:32044**
Primicerio, Angela Selvaggi *see* **Dini, G., 99m:32032**

32H50 Iteration problems

Bedford, Eric (*with* Pambuccian, Victoria) Dynamics of shift-like polynomial diffeomorphisms of $\mathbf{C}^N$. (English summary) **99e:32042**
Bernardes, Nilson C., Jr. A theorem on iterations of polynomial maps in several variables. (English summary) **99a:32035**
Berteloot, F. (*with* Loeb, Jean-Jacques) Spherical hypersurfaces and Lattès rational maps. (English and French summaries) **99e:32043**
Buzzard, Gregery T. Kupka-Smale theorem for automorphisms of $\mathbf{C}^n$. **99g:32046**
— *see also* **Smillie, John, 99b:32043**
Denker, Manfred (*with* Heinemann, Stefan-M.) Jordan tori and polynomial endomorphisms in $\mathbf{C}^2$. (English summary) **99f:32044**
Favre, Charles Points périodiques d'applications birationnelles de $\mathbf{P}^2$. (English and French summaries) [Periodic points of birational mappings of $\mathbf{P}^2$] **99i:32031**
Fornæss, John Erik (*with* Sibony, Nessim) Hyperbolic maps on $\mathbf{P}^2$. **99d:32032**
— (*with* Sibony, Nessim) Fatou and Julia sets for entire mappings in $\mathbf{C}^k$. **99e:32044**
Hakim, Monique Analytic transformations of $(\mathbf{C}^p, 0)$ tangent to the identity. **99a:32036**
Heinemann, Stefan-M. Julia sets in $\mathbf{C}^n$. **99g:32047**
— Julia sets of skew products in $\mathbf{C}^2$. **99g:32048**
— *see also* **Denker, Manfred, 99f:32044**
Hu, Pei-Chu (*with* Yang, Chung-Chun) Fatou-Julia theory in high-dimensional spaces. (English summary) **99b:32041**
Jonsson, Mattias Some properties of 2-critically finite holomorphic maps of $\mathbf{P}^2$. (English summary) **99b:32042**
— Sums of Lyapunov exponents for some polynomial maps of $\mathbf{C}^2$. (English summary) **99d:32033**
— Holomorphic motions of hyperbolic sets. **99g:32049**
Loeb, Jean-Jacques *see* **Berteloot, F., 99e:32043**
Nishimura, Yasuichiro Another Green function for some birational maps of $\mathbf{P}^2$. **99c:32036**
Pambuccian, Victoria *see* **Bedford, Eric, 99e:32042**
Rosay, Jean-Pierre Automorphisms of $\mathbf{C}^n$, a survey of Andersén-Lempert theory and applications. **99m:32034**
Sibony, Nessim *see* **Fornæss, John Erik, 99d:32032** *and* **99e:32044**
Smillie, John Complex dynamics in several variables. **99b:32043**
Suzuki, Masaaki On the Fatou component in $P^k(\mathbf{C})$. **99c:32037**
Weickert, Brendan J. Attracting basins for automorphisms of $\mathbf{C}^2$. **99e:32045**
Yang, Chung-Chun *see* **Hu, Pei-Chu, 99b:32041**

Items with secondary classifications in 32H50

Bracci, Filippo Commuting holomorphic maps in strongly convex domains. (English summary) **99k:32045**
Lamy, Stéphane L'alternative de Tits pour Aut[$\mathbf{C}^2$]. (English and French summaries) [The Tits alternative for Aut[$\mathbf{C}^2$]] **99j:14012**

32H99 None of the above, but in this section

Globevnik, Josip On Fatou-Bieberbach domains. **99g:32050**
Hayashimoto, Atsushi On the classification theorem for CR mappings. (English summary) **99g:32051**
Nadler, David (*with* Yakovenko, S.) Oscillation and boundary curvature of holomorphic curves in $\mathbf{C}^n$. (English summary) **99e:32046**
Shapiro, Boris Z. $\overline{\partial}$-free maps satisfy the homotopy principle. (English summary) **99g:32052**
Tauraso, Roberto Common fixed points of commuting holomorphic maps of the polydisc which are expanding on the torus. **99g:32053**
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32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Fujiki, Akira Nagata threefold and twistor space. (English summary) **99i:32032**
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32J10 Algebraic dependence theorems

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32J15 Compact surfaces

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Dloussky, Georges (*with* Kohler, Franz) Classification of singular germs of mappings and deformations of compact surfaces of class VII_0. (English summary) **99m:32036**
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32J17 Compact 3-folds

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32J18 Compact n-folds ($n \geq 4$)

Brudnyi, Alexander Holomorphic functions of polynomial growth on abelian coverings of a compact complex manifold. (English summary) **99h:32032**
Enoki, Ichiro Generalizations of Albanese mappings for non-Kähler manifolds. **99b:32044**
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32J25 Transcendental methods of algebraic geometry [see also 14C30]

Henkin, Gennadi (*with* Passare, Mikael) Abelian differentials on singular varieties and variations on a theorem of Lie-Griffiths. (English summary) **99m:32038**
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32J27 Compact Kähler manifolds: generalizations, classification

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32J81 Applications to physics

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— Orientifold limit of F-theory vacua. (English summary) **99j:81157**
— Orientifold limit of F-theory vacua. (English summary) **99j:81158**
Sharpe, Eric Extremal transitions in heterotic string theory. (English summary) **99c:81211**
— Notes on heterotic compactifications. (English summary) **99m:81230**
Skarke, Harald *see* **Candelas, Philip, 99a:14051**
Stieberger, S. *see* **Förger, Kristin, 99f:81160**
Strominger, Andrew *see* **Maldacena, Juan M.; et al., 99d:83097**
Terashima, Seiji (*with* Yang, Sung-Kil) Exceptional Seiberg-Witten geometry with massive fundamental matters. (English summary) **99b:81249**
Vafa, Cumrun Geometric physics. (English summary) **99j:81003**
— *see also* **Bershadsky, Michael; et al., 99b:81178**; **Leung, Nai-Chung Conan, 99f:81170**; **Minahan, Joseph A.; et al., 99j:81152** *and* **Hori, Kentaro; et al., 99m:81192**
Verlinde, E. P. *see* **Dijkgraaf, Robbert; et al., 99c:81175**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 99c:81175**
Warner, N. P. *see* **Minahan, Joseph A.; et al., 99j:81152**
Wißkirchen, Andreas *see* **Blumenhagen, Ralph, 99i:81172**
de Wit, Bernard (*with* Louis, Jan) Duality and supersymmetry. (English summary) **99e:81212**
— *see also* **Behrndt, Klaus; et al., 99f:83060**
Witten, Edward *see* **Maldacena, Juan M.; et al., 99d:83097** *and* **Friedman, Robert David; et al., 99g:14052**
Yang, Sung-Kil *see* **Terashima, Seiji, 99b:81249**

32J99 None of the above, but in this section

Grothendieck, Alexander Sur le mémoire de Weil: généralisation des fonctions abéliennes. [On Weil's memoir: generalization of abelian functions] (*see* **99f:00036**)

Items with secondary classifications in 32J99

Kasparian, Azniv When does a bounded domain cover a projective manifold? (Survey). (English summary) **99f:14019**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

Items with secondary classifications in 32K05

Reich, Simeon (*with* Shoikhet, David) Semigroups and generators on convex domains with the hyperbolic metric. (English and Italian summaries) **99g:47155**
Shoikhet, David *see* **Reich, Simeon, 99g:47155**

32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

Lelong, Pierre Ensembles de contrôle dans un espace de Banach complexe pour les fonctions plurisousharmoniques. (English summary) [Control sets in a complex Banach space for plurisubharmonic functions] **99b:32047**

Items with secondary classifications in 32K15

Bartosiewicz, Zbigniew (*with* Spallek, K.) Control theory with singular state-space constraints. (English summary) **99h:93030**
Nguyen Thai Son *see* **Nguyen Van Dong, 99a:46084**
Nguyen Van Dong (*with* Nguyen Thai Son) Fréchet-valued analytic functions and linear topological invariants. (English summary) **99a:46084**
Spallek, K. *see* **Bartosiewicz, Zbigniew, 99h:93030**

32K99 None of the above, but in this section

Kajiwara, Joji (*with* Shon, Kwang Ho; Tsuji, Miki) Localization of global existence of holomorphic solutions of holomorphic differential equations with infinite-dimensional parameter. **99m:32039**
Shon, Kwang Ho *see* **Kajiwara, Joji; et al., 99m:32039**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 99m:32039**

Items with secondary classifications in 32K99

Dinh Huy Hoang Finite proper holomorphic surjections and linear topological invariants $(\widetilde{\Omega})$ and $(\tilde{\Omega})$. (English summary) **99j:46050**
Lempert, László The Cauchy-Riemann equations in infinite dimensions. (English summary) **99k:46081**
Nguyen Van Dong Fréchet-valued meromorphic functions on compact sets in $\mathbf{C}^n$. (English summary) **99h:46060**

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

Blanchard, André Le plongement des variétés de Hodge dans des espaces projectifs complexes (d'après K. Kodaira). [Embeddings of Hodge manifolds in complex projective spaces (after K. Kodaira)] (*see* **99f:00035**)
Cartan, Henri Espaces fibrés analytiques, d'après H. Grauert. [Analytic fiber spaces, after H. Grauert] (*see* **99f:00036**)
Coltoiu, Mihnea On the Oka-Grauert principle for 1-convex manifolds. **99c:32040**
Henkin, Gennadi (*with* Leiterer, J.) The Oka-Grauert principle without induction over the base dimension. **99f:32048**
Leiterer, J. *see* **Henkin, Gennadi, 99f:32048**
Nadel, Alan M. Invariants for holomorphic vector bundles. **99e:32049**

Items with secondary classifications in 32L05

Auroux, D. Asymptotically holomorphic families of symplectic submanifolds. (English summary) **99b:57069**
Demailly, Jean-Pierre Variétés projectives hyperboliques et équations différentielles algébriques. [Hyperbolic projective varieties and algebraic differential equations] **99a:32033**
Enriquez, Benjamin Dynamical r-matrices for Hitchin's systems on Schottky curves. (English summary) **99d:58078**
Teleman, Andrei Dumitru Moduli spaces of stable bundles on non-Kählerian elliptic fibre bundles over curves. **99e:32028**

32L07 Hermite-Einstein bundles; Kähler-Einstein bundles [see also 53C07]

Bartocci, Claudio (*with* Bruzzo, Ugo; Hernández Ruipérez, Daniel) A hyper-Kähler Fourier transform. (English summary) **99f:32049**
Bourguignon, Jean Pierre Métriques d'Einstein-Kähler sur les variétés de Fano: obstructions et existence (d'après Y. Matsushima, A. Futaki, S. T. Yau, A. Nadel et G. Tian). (French summary) [Einstein-Kähler metrics on Fano manifolds: obstructions and existence (after Y. Matsushima, A. Futaki, S.-T. Yau, A. Nadel and G. Tian)] **99i:32033**
Bradlow, Steven (*with* Glazebrook, James; Kamber, Franz) A new look at the vortex equations and dimensional reduction. (English summary) **99a:32040**
Bruzzo, Ugo *see* **Bartocci, Claudio; et al., 99f:32049**
Glazebrook, James *see* **Bradlow, Steven; et al., 99a:32040**
Hernández Ruipérez, Daniel *see* **Bartocci, Claudio; et al., 99f:32049**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Uniruled projective manifolds with irreducible reductive G-structures. **99h:32034**
Kamber, Franz *see* **Bradlow, Steven; et al., 99a:32040**
Mok, Ngaiming *see* **Hwang, Jun-Muk, 99h:32034**
Paun, Mihai Sur les variétés kählériennes compactes à classe de Ricci numériquement effective. [On compact Kähler manifolds with numerically effective Ricci class] **99d:32037**
Schumacher, Georg Asymptotics of Kähler-Einstein metrics on quasi-projective manifolds and an extension theorem on holomorphic maps. **99g:32054**
To, Wing-Keung (*with* Weng, Lin) Curvature of the L^2-metric on the direct image of a family of Hermitian-Einstein vector bundles. (English summary) **99d:32038**
Wang, An The Einstein-Kähler metrics on a class of Reinhardt domains and their curvatures. (Chinese. English and Chinese summaries) **99a:32041**
Weng, Lin *see* **To, Wing-Keung, 99d:32038**
Wong, Bun An application of Einstein Kähler metrics to proper holomorphic mappings between pseudoconvex domains. (English summary) **99c:32041**
Yin, Wei Ping The Einstein-Kähler metrics with explicit forms on a class of egg domains. (English summary) **99i:32034**
Zhu, Xiao Hua An existence theorem for Kähler-Einstein orbifold metrics on singular cubic surfaces. (Chinese. English and Chinese summaries) **99e:32050**
— Nonexistence of Kähler-Einstein metrics and solutions of degenerate complex Monge-Ampère equations. (Chinese. Chinese summary) **99e:32051**

Items with secondary classifications in 32L07

Biswas, Indranil Chern classes for parabolic bundles. **99k:14068**
Leung, Nai-Chung Conan Einstein type metrics and stability on vector bundles. **99a:53022**
— Symplectic structures on gauge theory. (English summary) **99k:58171**
Li, Jun[1] Anti-self-dual connections and stable vector bundles. **99e:53025**
Schumacher, Georg Moduli of framed manifolds. **99k:32034**
Sung, Myong-Hee Kähler surfaces of positive scalar curvature. (English summary) **99f:32047**
Tian, Gang Kähler-Einstein metrics with positive scalar curvature. (English summary) **99e:53065**
Tønnesen-Friedman, Christina Wiis Extremal Kähler metrics on minimal ruled surfaces. (English summary) **99g:58026**
Yoshikawa, Ken-ichi Smoothing of isolated hypersurface singularities and Quillen metrics. (English summary) **99m:58204**

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

Ambrozie, Călin-Grigore A stability result on mixed manifolds. (English summary) **99f:32050**
Barletta, Elisabetta (*with* Dragomir, Sorin) Uniform approximation of holomorphic forms. (English summary) **99f:32051**
Chuah, Meng-Kiat Holomorphic sections of prequantum line bundles on G/N. **99j:32031**
Dolbeault, Pierre Le théorème de Riemann-Roch sur les surfaces kählériennes compactes (d'après Kodaira). [The Riemann-Roch theorem on compact Kähler surfaces (after Kodaira)] (*see* **99f:00034**)
Dragomir, Sorin *see* **Barletta, Elisabetta, 99f:32051**
Onishchik, A. L. About derivations and vector-valued differential forms. (English summary) **99j:32032**

Siu, Yum-Tong Invariance of plurigenera. **99i:32035**
Takayama, Shigeharu On relative base point freeness of adjoint bundle. (English summary) **99d:32039**
— Adjoint linear series on weakly 1-complete Kähler manifolds. I. Global projective embedding. **99k:32049**
Takegoshi, Kensho On cohomology groups of nef line bundles tensorized with multiplier ideal sheaves on compact Kähler manifolds. **99j:32033**
Vuletescu, Victor Relating vector bundles on a nonalgebraic surface with those on its blow-up. (English summary) **99i:32036**
Zelditch, Steven Asymptotics of holomorphic sections of powers of a positive line bundle. **99k:32050**
— Szegő kernels and a theorem of Tian. **99g:32055**

Items with secondary classifications in 32L10

Barchini, L. (*with* Zierau, R.) Square integrable harmonic forms and representation theory. **99e:22022**
Bar-Moshe, David (*with* Marinov, Michael) Quantization on homogeneous compact Kähler manifolds. (English summary) **99a:58075**
Biswas, Indranil Differential operators on complex manifolds with a flat projective structure. (English summary) **99m:14034**
Braverman, Maxim Holomorphic Morse inequalities and symplectic reduction. (English summary) **99h:58178**
Bressler, Paul (*with* Nest, Ryszard; Tsygan, Boris) A Riemann-Roch type formula for the microlocal Euler class. **99g:58118**
Demailly, Jean-Pierre L^2 vanishing theorems for positive line bundles and adjunction theory. **99k:32051**
— Algebraic criteria for Kobayashi hyperbolic projective varieties and jet differentials. (English summary) **99b:32037**
Ein, Lawrence (*with* Lazarsfeld, Robert; Nakamaye, Michael) Zero-estimates, intersection theory, and a theorem of Demailly. **99c:14006**
Lazarsfeld, Robert *see* **Ein, Lawrence; et al., 99c:14006**
Lazzarini, Serge Flat complex vector bundles, the Beltrami differential and W-algebras. (English summary) **99c:32024**
Lorch, John D. An orthogonal family of polynomials on the generalized unit disk and ladder representations of $U(p,q)$. (English summary) **99b:22023**
Marinov, Michael *see* **Bar-Moshe, David, 99a:58075**
Nakamaye, Michael *see* **Ein, Lawrence; et al., 99c:14006**
Nest, Ryszard *see* **Bressler, Paul; et al., 99g:58118**
Sergeev, A. G. Vortex equations. (English summary) **99b:58057**
Takayama, Shigeharu The Levi problem and the structure theorem for non-negatively curved complete Kähler manifolds. **99j:32034**
Tsygan, Boris *see* **Bressler, Paul; et al., 99g:58118**
Zhang, Qi[1] Global holomorphic one-forms on projective manifolds with ample canonical bundles. **99k:14071**
Zierau, R. *see* **Barchini, L., 99e:22022**

32L15 Bundle convexity [see also 32F10]

Paun, Mihai Sur l'effectivité numérique des images inverses de fibrés en droites. [Numerical effectiveness of inverse images of line bundles] **99c:32042**
Takayama, Shigeharu The Levi problem and the structure theorem for non-negatively curved complete Kähler manifolds. **99j:32034**

32L20 Vanishing theorems

Anchouche, Boudjemâa Sur la dimension logarithmique de Kodaira des variétés kählériennes complètes de courbure de Ricci positive. [On the logarithmic Kodaira dimension of complete Kähler manifolds of positive Ricci curvature] **99f:32052**
Broer, Abraham A vanishing theorem for Dolbeault cohomology of homogeneous vector bundles. (English summary) **99e:32052**
Demailly, Jean-Pierre L^2 vanishing theorems for positive line bundles and adjunction theory. **99k:32051**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Vanishing theorems for constructible sheaves. II. **99k:32052**
Koziarz, Vincent Annulation de la cohomologie pour les fibrés semi-positifs. (English and French summaries) [Vanishing theorems for semipositive bundles] **99h:32035**
Lê Dũng Tráng *see* **Hamm, Helmut A., 99k:32052**

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Aikou, Tadashi A partial connection on complex Finsler bundles and its applications. **99j:53090**
Berni, Olivier A vanishing theorem for formal cohomology of perverse sheaves. (English summary) **99g:32016**
Cho, Koji A generalization of Kita and Noumi's vanishing theorems of cohomology groups of local system. (English summary) **99a:14025**
Hamada, Hidetaka Complex manifolds which are exhausted by complete Kähler domains. (English summary) **99j:32019**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Théorèmes d'annulation pour les faisceaux algébriquement constructibles. (English and French summaries) [Vanishing theorems for algebraically constructible sheaves] **99m:14035**
Lê Dũng Tráng *see* **Hamm, Helmut A., 99m:14035**
Lempert, László The Dolbeault complex in infinite dimensions. I. (English summary) **99f:58007**
Majima, Hideyuki Vanishing theorems in asymptotic analysis. III. Applications to confluent hypergeometric differential equations. **99e:32014**
Napier, Terrence (*with* Ramachandran, Mohan) The L^2 $\overline{\partial}$-method, weak Lefschetz theorems, and the topology of Kähler manifolds. (English summary) **99a:32008**
Ramachandran, Mohan *see* **Napier, Terrence, 99a:32008**
Takayama, Shigeharu The Levi problem and the structure theorem for non-negatively curved complete Kähler manifolds. **99j:32034**
— Nonvanishing theorems on an algebraic variety with large fundamental group. **99k:14030**
Takegoshi, Kensho On cohomology groups of nef line bundles tensorized with multiplier ideal sheaves on compact Kähler manifolds. **99j:32033**

32L25 Twistor theory, double fibrations

Bailey, Toby N. The Penrose transform and real integral geometry. **99g:32056**
— (*with* Eastwood, Michael G.; Gover, A. Rod; Mason, Lionel J.) The Funk transform as a Penrose transform. (English summary) **99i:32037**
Bureš, Jarolím (*with* Souček, Vladimír) The inverse Penrose transform for the Dirac and complex Laplace equations. (French summary) **99e:32053**
Eastwood, Michael G. *see* **Bailey, Toby N.; et al., 99i:32037**
Gindikin, S. G. Penrose transform for flag domains. **99h:32036**
Gover, A. Rod *see* **Bailey, Toby N.; et al., 99i:32037**
Kreußler, B. On the algebraic dimension for twistor spaces over the connected sum of four complex projective planes. (English summary) **99m:32040**
Ławrynowicz, Julian (*with* Suzuki, Osamu) The twistor theory of the Hermitian Hurwitz pair $(\mathbf{C}^4(I_{2,2}), \mathbf{R}^5(I_{2,3}))$. (English summary) **99j:32035**
LeBrun, Claude R. Twistors for tourists: a pocket guide for algebraic geometers. **99i:32038**
Mason, Lionel J. *see* **Bailey, Toby N.; et al., 99i:32037**
Schapira, Pierre Boundary values, Fourier-Sato transform and Laplace transform. (English summary) **99d:32040**
Souček, Vladimír *see* **Bureš, Jarolím, 99e:32053**
Suzuki, Osamu *see* **Ławrynowicz, Julian, 99j:32035**
Trautman, Andrzej Pythagorean spinors and Penrose twistors. **99d:32041**
Tsai, Cheng-Chih A Penrose transform for complex Euclidean 5-space. (English summary) **99e:32054**
Ward, R. S. Twistors, geometry, and integrable systems. **99e:32055**

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Anand, Christopher Kumar A closed form for unitons. **99j:58052**
Apostolov, V. (*with* Grantcharov, G.; Ivanov, Stefan P.) Hermitian structures on twistor spaces. (English summary) **99h:53054**
Bartocci, Claudio (*with* Bruzzo, Ugo; Hernández Ruipérez, Daniel) A hyper-Kähler Fourier transform. (English summary) **99f:32049**
Bruzzo, Ugo *see* **Bartocci, Claudio; et al., 99f:32049**
Field, T. R. (*with* Low, Robert) Causal relations via linking in twistor space. (English summary) **99i:81075**
Fujiki, Akira Partial compactifications of certain hyper-Kähler quotients. **99a:53057**
— Nagata threefold and twistor space. (English summary) **99i:32032**
Gindikin, S. G. Real integral geometry and complex analysis. **99h:53101**
Grantcharov, G. *see* **Apostolov, V.; et al., 99h:53054**
Guha, Partha (*with* Takasaki, Kanehisa) Dispersionless hierarchies, Hamilton-Jacobi theory and twistor correspondences. (English summary) **99e:58099**
Hernández Ruipérez, Daniel *see* **Bartocci, Claudio; et al., 99f:32049**
Hitchin, Nigel Hypercomplex manifolds and the space of framings. **99k:53093**
Ivanov, Stefan P. *see* **Apostolov, V.; et al., 99h:53054**
Kim, Jongsu Conformal compactification of asymptotically Euclidean scalar-flat Kähler surfaces. (English summary) **99a:32037**
(King, James R.) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**
(Koblitz, Neal) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**
Kreußler, B. Moishezon twistor spaces without effective divisors of degree one. (English summary) **99c:32039**
Langer, Adrian On twistor curves of small degree. **99d:32034**
Low, Robert *see* **Field, T. R., 99i:81075**
Manin, Yuriĭ Ivanovich ★ Gauge field theory and complex geometry. **99e:32001**
Merkulov, Sergei (*with* Schwachhöfer, L. J.) Twistor solution of the holonomy problem. **99j:53025**
— *see also* **Manin, Yuriĭ Ivanovich, 99e:32001**
Ofman, Salomon Solutions of differential equations systems in integral geometry. (French summary) **99e:53109**
Pedersen, Henrik (*with* Poon, Yat Sun) Deformations of hypercomplex structures. (English summary) **99h:32009**
Penrose, Roger Afterword. **99f:83054**
— Some remarks on twistor theory. (English summary) **99k:81101**
Poon, Yat Sun *see* **Pedersen, Henrik, 99h:32009**
Schwachhöfer, L. J. *see* **Merkulov, Sergei, 99j:53025**
Sergeev, A. G. Twistor quantization of loop spaces and general Kähler manifolds. (English summary) **99b:58106**
Takasaki, Kanehisa *see* **Guha, Partha, 99e:58099**
Tomassini, Adriano Homogeneous G-geometries and uniformization. (Italian)
Vaisman, Izu On the twistor spaces of almost Hermitian manifolds. (English summary) **99h:53096**

32L30 Holomorphic foliations [see also 58F18]

Azevedo Scárdua, B. Parabolic uniform limits of holomorphic flows in $\mathbf{C}^2$. (English summary) **99d:32042**
Brunella, Marco Sur les courbes intégrales propres des champs de vecteurs polynomiaux. [On proper integral curves of polynomial vector fields] **99e:32056**
Cerveau, D. (*with* Loray, F.) Un théorème de Frobenius singulier via l'arithmétique élémentaire. (French summary) [A singular Frobenius theorem via elementary arithmetic] **99e:32057**
Glutsyuk, A. A. Hyperbolicity of the leaves of a generic one-dimensional holomorphic foliation on a nonsingular projective algebraic variety. (Russian) **99m:32041**
Hénaut, Alain Sur la linéarisation des tissus. (English summary) [The linearization of webs] **99a:32042**
Holmann, H. (*with* Kaup, B.; Reiffen, Hans-Jörg) Singular holomorphic foliations with attractive leaves. (English and Italian summaries) **99c:32043**

Kaup, B. *see* **Holmann, H.; et al., 99c:32043**
Le Floch, Laurent Rigidité générique des feuilletages singuliers. (English and French summaries) [Generic rigidity of singular foliations] **99i:32039**
Loray, F. *see* **Cerveau, D., 99e:32057**
Moussu, R. Sur l'existence d'intégrales premières holomorphes. [On the existence of holomorphic first integrals] **99i:32040**
Reeb, Georges Sur les feuilletages analytiques (d'après André Haefliger). [On analytic foliations (after A. Haefliger)] (*see* **99f:00037**)
Reiffen, Hans-Jörg *see* **Holmann, H.; et al., 99c:32043**
Sertöz, A. Sinan Local structure of holomorphic foliation singularities. (English summary) **99j:32036**
Soares, Marcio G. The Poincaré problem for hypersurfaces invariant by one-dimensional foliations. **99a:32043**
Yoshizaki, Junya On the structure of the singular set of a complex analytic foliation. **99h:32037**
— The local analytical triviality of a complex analytic singular foliation. (English summary) **99k:32053**

Items with secondary classifications in 32L30

Garnica Vigil, Eugenio (*with* Sánchez Morgado, Héctor) $\overline{\partial}$-torsion and compact orbits of Anosov actions on complex 3-manifolds. (English summary) **99g:58129**
Hénaut, Alain Sur l'algébrisation des tissus de codimension n de $\mathbf{C}^{2n}$. (English and French summaries) [Algebraization of codimension-n webs in $\mathbf{C}^{2n}$] **99a:53012**
Hwang, Jun-Muk Stability of tangent bundles of low-dimensional Fano manifolds with Picard number 1. **99i:14045**
Mok, Ngaiming Holomorphic foliations with compatible degenerate Kähler metrics: applications to the Shafarevich conjecture and to fibration theorems. **99e:32048**
Sánchez Morgado, Héctor *see* **Garnica Vigil, Eugenio, 99g:58129**
Suwa, Tatsuo ★ Indices of vector fields and residues of singular holomorphic foliations. (English summary) **99h:32042**

32L81 Applications to physics

Items with secondary classifications in 32L81

Harris, Adam Analytic continuation of complex gauge fields. (English summary) **99j:32013**

32L99 None of the above, but in this section

Items with secondary classifications in 32L99

Laurent-Thiébaut, C. (*with* Leiterer, J.) The Andreotti-Vesentini separation theorem and global homotopy representation. **99m:32019**
Leiterer, J. *see* **Laurent-Thiébaut, C., 99m:32019**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Aripov, R. G. Algebraic structure of the differential field of G-invariant differential rational functions of paths in the space $\mathbf{C}^n$ for complex orthogonal groups G. (Russian. English and Uzbek summaries)
Bedford, Eric (*with* Pinchuk, S. I.) Domains in $\mathbf{C}^2$ with noncompact automorphism groups. (English summary) **99e:32058**
Chen, So-Chin (*with* Jang, Shih-Biau) An extension of H. Cartan's theorem. (English summary) **99j:32037**
Derksen, Harm (*with* Kutzschebauch, Frank) Nonlinearizable holomorphic group actions. **99d:32043**
Gilligan, Bruce Homology invariants of homogeneous complex manifolds. (English summary) **99e:32059**
Glas, W. (*with* Hausen, Jürgen) $\mathbf{C}^*$-surfaces with one-dimensional holomorphic hull. (English summary) **99j:32038**
Hausen, Jürgen *see* **Glas, W., 99j:32038**
Heinzner, Peter The minimum principle from a Hamiltonian point of view. (English summary) **99c:32044**
Jang, Shih-Biau *see* **Chen, So-Chin, 99j:32037**
Kutzschebauch, Frank Compact and reductive subgroups of the group of holomorphic automorphisms of $\mathbf{C}^n$. **99k:32054**
— *see also* **Derksen, Harm, 99d:32043**
Pinchuk, S. I. *see* **Bedford, Eric, 99e:32058**
Stratmann, B. Differentiable structures on symplectic reductions. (English summary) **99g:32057**

Items with secondary classifications in 32M05

Akhiezer, D. N. Group actions on the Dolbeault cohomology of homogeneous manifolds. **99a:32044**
De Fabritiis, Chiara A family of complex manifolds covered by Δ_n. (English summary) **99k:32055**
Gaussier, Hervé Tautness and complete hyperbolicity of domains in $\mathbf{C}^n$. (English summary) **99b:32039**
Isaev, A. V. (*with* Krantz, Steven G.) Hyperbolic Reinhardt domains in $\mathbf{C}^2$ with noncompact automorphism group. (English summary) **99h:32003**
Kan, Su-Jen On the rigidity of non-positively curved Grauert tubes. **99i:32011**
Krantz, Steven G. *see* **Isaev, A. V., 99h:32003**
Neeb, Karl-Hermann On the complex and convex geometry of Ol'shanskiĭ semigroups. (English and French summaries) **99e:22013**
Snow, Dennis M. (*with* Winkelmann, Jörg) Compact complex homogeneous manifolds with large automorphism groups. (English summary) **99f:32054**
Winkelmann, Jörg Holomorphic self-maps of parallelizable manifolds. (English summary) **99c:57068**
— *see also* **Snow, Dennis M., 99f:32054**
Zhou, Xiang Yu On invariant domains in certain complex homogeneous spaces. (English and French summaries) **99a:32045**
— The extended future tube is a domain of holomorphy. **99d:32011**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Akhiezer, D. N. Group actions on the Dolbeault cohomology of homogeneous manifolds. **99a:32044**
Damek, Ewa (*with* Hulanicki, A.; Penney, Richard C.) Hua operators on bounded homogeneous domains in $\mathbf{C}^n$ and alternative reproducing kernels for holomorphic functions. (English summary) **99d:32044**
De Fabritiis, Chiara A family of complex manifolds covered by Δ_n. (English summary) **99k:32055**
Hulanicki, A. *see* **Damek, Ewa; et al., 99d:32044**
Pabst, Gudrun ★ Homogene Kähler-Mannigfaltigkeiten nicht-positiver Krümmung. (German) [Homogeneous Kähler manifolds with nonpositive curvature] **99f:32053**
Penney, Richard C. *see* **Damek, Ewa; et al., 99d:32044**
Snow, Dennis M. (*with* Winkelmann, Jörg) Compact complex homogeneous manifolds with large automorphism groups. (English summary) **99f:32054**
Winkelmann, Jörg Complex analytic geometry of complex parallelizable manifolds. (English and French summaries) **99g:32058**
— *see also* **Snow, Dennis M., 99f:32054**
Zhou, Xiang Yu On invariant domains in certain complex homogeneous spaces. (English and French summaries) **99a:32045**

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Alekseevskiĭ, D. V. Flag manifolds. **99b:53073**
Barchini, L. (*with* Gindikin, S. G.; Wong, Hon-Wai) The geometry of flag manifold and holomorphic extension of Szegő kernels for $SU(p, q)$. (English summary) **99d:22020**
— (*with* Zierau, R.) Square integrable harmonic forms and representation theory. **99e:22022**
Bekolle, David (*with* Temgoua Kagou, Anatole) Molecular decompositions and interpolation. (English summary) **99e:32035**
Broer, Abraham A vanishing theorem for Dolbeault cohomology of homogeneous vector bundles. (English summary) **99e:32052**
Fino, Anna Systems of roots and topology of complex flag manifolds. (English summary) **99j:57044**
Gigante, Giuliana A remark on Brody's theorem on homogeneous complex manifolds. (Italian summary) **99f:32040**
Gindikin, S. G. Penrose transform for flag domains. **99h:32036**
— *see also* **Barchini, L.; et al., 99d:22020**
Loboda, A. V. On the sphericity of rigid hypersurfaces in $\mathbf{C}^2$. (Russian. Russian summary) **99g:32030**
Shipman, Barbara A. On the geometry of certain isospectral sets in the full Kostant-Toda lattice. (English summary) **99i:58084**
Temgoua Kagou, Anatole *see* **Bekolle, David, 99e:32035**
Tsai, Cheng-Chih A Penrose transform for complex Euclidean 5-space. (English summary) **99e:32054**
Wolf, Joseph A. Flag manifolds and representation theory. **99a:22029**
Wong, Hon-Wai *see* **Barchini, L.; et al., 99d:22020**
Zierau, R. *see* **Barchini, L., 99e:22022**

32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

Arazy, Jonathan (*with* Upmeier, Harald) Discrete series representations and integration over boundary orbits of symmetric domains. (English summary) **99c:32045**
Baily, Walter L., Jr. A problem on an exceptional domain. **99c:32046**
Bertram, Wolfgang Algebraic structures of Makarevič spaces. I. (English summary) **99c:32047**
Birkenhake, Christina Complex structures contained in classical groups. (English summary) **99h:32038**
Borel, Armand Les espaces hermitiens symétriques. [Symmetric Hermitian spaces] (*see* **99f:00034**)
Clerc, Jean-Louis Compressions and contractions of Hermitian symmetric spaces. **99m:32042**
Dimou, G. New representation of a non-symmetric homogeneous domain in $\mathbf{C}^n$, $n = 8$.
Dooley, Anthony H. (*with* Zhang, Genkai) Algebras of invariant functions on the Shilov boundaries of Siegel domains. (English summary) **99f:32055**
Gindikin, S. G. Tube domains in Stein symmetric spaces. **99i:32041**
Jevtić, Miroljub Besov spaces on bounded symmetric domains. (English summary) **99b:32048**
Korányi, Adam (*with* Reimann, H. M.) Equivariant extension of quasiconformal deformations into the complex unit ball. **99g:32059**
Neretin, Yurii A. Hinges and the Study-Semple-Satake-Furstenberg-De Concini-Procesi-Oshima boundary. (English summary) **99g:32060**
Reimann, H. M. *see* **Korányi, Adam, 99g:32059**
Roos, Guy Volume of bounded symmetric domains and compactification of Jordan triple systems. (English summary) **99d:32045**
Satake, Ichiro Equivariant holomorphic embeddings of symmetric domains and applications. **99f:32056**
Temgoua Kagou, Anatole The duals of Bergman spaces in Siegel domains of type II. (English and French summaries) **99c:32048**

Upmeier, Harald Toeplitz-Berezin quantization and non-commutative differential geometry. **99c:32049**
— *see also* **Arazy, Jonathan**, **99c:32045**
Wolf, Joseph A. (*with* Zierau, R.) Cayley transforms and orbit structure in complex flag manifolds. (English summary) **99b:32049**
Zhang, Genkai *see* **Dooley, Anthony H.**, **99f:32055**
Zhu, Fuliu The inverse Abel transform for an exceptional bounded symmetric domain. (English summary) **99c:32050**
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Items with secondary classifications in 32M15

Birkenhake, Christina (*with* Lange, Herbert) Parameter spaces for complex tori with endomorphism structure. (English summary) **99e:14051**
Casselman, William Geometric rationality of Satake compactifications. **99e:22027**
Engliš, Miroslav (*with* Peetre, Jaak) Green's functions for powers of the invariant Laplacian. (English summary) **99c:58146**
— Invariant operators and the Berezin transform on Cartan domains. (English summary) **99m:47035**
Fujita, Etsuro (*with* Nomura, Takaaki) Berezin transforms on the 2×2 matrix space related to the $U(2) \times U(2)$-action. (English summary) **99k:43008**
Gao, Jin Shou D^p multipliers on bounded symmetric domains. (Chinese. English and Chinese summaries) **99f:32003**
Hagenbach, U. (*with* Upmeier, Harald) Toeplitz C^*-algebras over non-convex cones and pseudo-symmetric spaces. **99h:47033**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Rigidity of irreducible Hermitian symmetric spaces of the compact type under Kähler deformation. **99b:32027**
Jost, Jürgen (*with* Yau, Shing-Tung) Harmonic maps and superrigidity. (English summary) **99i:53052**
Lange, Herbert *see* **Birkenhake, Christina**, **99e:14051**
Li, Qing Zhong The construction of heat kernels in quaternionic classical domains. (Chinese. Chinese summary)
Lou, Zeng Jian *see* **Wulan, Hasi**, **99k:32009**
Mok, Ngaiming *see* **Hwang, Jun-Muk**, **99b:32027**
Nomura, Takaaki *see* **Fujita, Etsuro**, **99k:43008**
Ólafsson, Gestur Open problems in harmonic analysis on causal symmetric spaces. **99h:43021**
— (*with* Ørsted, Bent) Causal compactification and Hardy spaces. (English summary) **99m:22005**
Ørsted, Bent *see* **Ólafsson, Gestur**, **99m:22005**
Pabst, Gudrun ★ Homogene Kähler-Mannigfaltigkeiten nicht-positiver Krümmung. (German) [Homogeneous Kähler manifolds with nonpositive curvature] **99f:32053**
Peetre, Jaak *see* **Engliš, Miroslav**, **99c:58146**
Quiroga-Barranco, R. Hermitian metric rigidity for foliated vector bundles. (English summary) **99j:53028**
Satake, Ichiro Equivariant holomorphic embeddings of symmetric domains and applications. **99f:32056**
Upmeier, Harald *see* **Hagenbach, U.**, **99h:47033**
Wulan, Hasi (*with* Lou, Zeng Jian) Multiplier transformations of mixed norm spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **99k:32009**
— Mixed norm space of pluriharmonic functions. (English summary) **99f:32008**
Yao, Bi Yun Some properties of D^p spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **99f:32005**
Yau, Shing-Tung *see* **Jost, Jürgen**, **99i:53052**

32M99 None of the above, but in this section

Vaksman, L. L. Integral intertwining operators and quantum homogeneous spaces. (Russian. English and Russian summaries) **99a:32046**

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Rosay, Jean-Pierre Automorphisms of $\mathbf{C}^n$, a survey of Andersén-Lempert theory and applications. **99m:32034**
Vigué, Jean-Pierre Automorphismes analytiques des domaines produits. (English summary) [Analytic automorphisms of product domains] **99b:58018**

32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

Fedorov, Sergeĭ Igor'evich On harmonic analysis in a multiply connected domain and character-automorphic Hardy spaces. (Russian) **99d:32046**

32N10 Automorphic forms

Aoki, Hiroki An automorphic forms on the expanded symmetric domain of type IV (introductory talk). (*see* **99h:32002**)

Items with secondary classifications in 32N10

Temgoua Kagou, Anatole The duals of Bergman spaces in Siegel domains of type II. (English and French summaries) **99c:32048**

32N15 Automorphic functions in symmetric domains

Items with secondary classifications in 32N15

Aoki, Hiroki An automorphic forms on the expanded symmetric domain of type IV (introductory talk). (*see* **99h:32002**)
Gan, Wee Teck (*with* Loke, Hung Yean) Modular forms of level p on the exceptional tube domain. **99c:11052**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) Enriques surfaces, analytic discriminants, and Borcherds's Φ function. (English summary) **99e:14042**
Loke, Hung Yean *see* **Gan, Wee Teck**, **99c:11052**
Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay**, **99e:14042**

32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

Cherry, William A. A survey of Nevanlinna theory over non-Archimedean fields. (English summary) **99a:32047**
Ha Huy Khoai p-adic hyperbolic surfaces. **99c:32051**
Houzel, Christian Espaces analytiques rigides (d'après R. Kiehl). [Rigid analytic spaces (after R. Kiehl)] (*see* **99f:00042**)
Nguyen Thanh Quang p-adic hyperbolicity of the complement of hyperplanes in $\mathbf{P}^n(\mathbf{C}_p)$. (English summary) **99e:32060**
Robinson, Zachary Flatness and smooth points of p-adic subanalytic sets. (English summary) **99b:32050**

Items with secondary classifications in 32P05

Berkovich, Vladimir G. p-adic analytic spaces. (English summary) **99h:14026**
Beyer, Peter Zur Serre-Dualität für kohärente Garben auf rigid-analytischen Räumen. [On Serre duality for coherent sheaves on rigid-analytic spaces] **99d:32009**
— On Serre-duality for coherent sheaves on rigid-analytic spaces. **99b:32009**
Bombosch, Uwe Der Zariski-Riemann-Raum und die étale Kohomologie rigider Räume. [The Zariski-Riemann space and the étale cohomology of rigid spaces] **99c:14029**
Bosch, Siegfried (*with* Görtz, Ulrich) Coherent modules and their descent on relative rigid spaces. **99b:14022**
Görtz, Ulrich *see* **Bosch, Siegfried**, **99b:14022**
Huber, Roland A finiteness result for the compactly supported cohomology of rigid analytic varieties. **99h:14020**
— A finiteness result for direct image sheaves on the étale site of rigid analytic varieties. **99h:14021**
Kisin, Mark Analytic functions on Zariski open sets, and local cohomology. (English summary) **99m:32012**
Lütkebohmert, Werner Étale coverings of p-adic discs. (English summary) **99b:14024**
Van Steen, Guido Some rigid geometry. **99g:11079**

32Sxx Singularities

Items with secondary classifications in 32Sxx

Arnol'd, Vladimir Igorevich (*with* Goryunov, V. V.; Lyashko, O. V.; Vassiliev, V. A.) ★ Singularity theory. I. **99f:58024**
Goryunov, V. V. *see* **Arnol'd, Vladimir Igorevich; et al.**, **99f:58024**
(Iacob, Andrei) *see* **Arnol'd, Vladimir Igorevich; et al.**, **99f:58024**
Lyashko, O. V. *see* **Arnol'd, Vladimir Igorevich; et al.**, **99f:58024**
Vassiliev, V. A. *see* **Arnol'd, Vladimir Igorevich; et al.**, **99f:58024**

32S05 Local singularities [see also 14B05]

Benazic Tome, Renato Mario *see* **Camacho, Maria Izabel Tavares**, **99k:32056**
Camacho, Maria Izabel Tavares (*with* Benazic Tome, Renato Mario) Topological equivalence of dicritical holomorphic vector fields. (English summary) **99k:32056**
Chądzyński, Jacek (*with* Krasiński, Tadeusz) A set on which the local Łojasiewicz exponent is attained. (English summary) **99b:32051**
Comte, Georges Multiplicity of complex analytic sets and bi-Lipschitz maps. (English summary) **99a:32048**
Izumi, Shuzo Quantification of the singularities of Osgood and Whitney. (*see* **99h:32002**)
Jiang, Guangfeng Algebraic descriptions of non-isolated singularities. (English summary) **99a:32049**
Krasiński, Tadeusz *see* **Chądzyński, Jacek**, **99b:32051**
Shubladze, M. On finite multiplicity of a hypersurface singularity. (English summary) **99i:32042**
Trotman, David Multiplicity as a C^1 invariant. **99a:32050**

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Cynk, Sławomir Singular set of w-holomorphic functions on quasi-projective algebraic sets. (English summary) **99a:32006**
Eguchi, Tohru String duality and a new description of the E_6 singularity. (English summary) **99m:81183**
Greuel, Gert-Martin (*with* Hertling, Claus; Pfister, Gerhard) Moduli spaces of semiquasi-homogeneous singularities with fixed principal part. **99a:32057**
Gusein-Zade, Sabir M. Invariants of generic plane curves and invariants of singularities. (English summary) **99b:32056**
Hertling, Claus *see* **Greuel, Gert-Martin; et al.**, **99a:32057**
Ishii, Shihoko (*with* Tomari, Masataka) Hypersurface non-rational singularities which look like canonical from its Newton boundary. **99m:32044**
Kanesaka, Naohiro Hypersurface purely elliptic singularities of $(0, 1)$-type. **99k:32060**
Lê Dũng Tráng (*with* Weber, Claude) Équisingularité dans les pinceaux de germes de courbes planes et C^0-suffisance. [Equisingularity in pencils of germs of plane curves and C^0-sufficiency] **99d:32047**
Nuno Ballesteros, Juan J. (*with* Saia, Marcelo José) Multiplicity of Boardman strata and deformations of map germs. (English summary) **99a:58016**
Okuma, Tomohiro The pluri-genera of surface singularities. (English summary) **99h:32039**
Pfister, Gerhard *see* **Greuel, Gert-Martin; et al.**, **99a:32057**

Saia, Marcelo José *see* **Nuno Ballesteros, Juan J., 99a:58016**
Suzuki, Masahiko The blow analytically constant stratum of real analytic singularities. (English summary) **99f:32057**
Tomari, Masataka *see* **Ishii, Shihoko, 99m:32044**
Weber, Claude *see* **Lê Dũng Tráng, 99d:32047**

32S10 Invariants of analytic local rings

Gavrilov, Lubomir Petrov modules and zeros of Abelian integrals. (English summary) **99m:32043**

Items with secondary classifications in 32S10

Damon, James On the legacy of free divisors: discriminants and Morse-type singularities. (English summary) **99e:32062**
Lins Neto, A. Holomorphic rank of hypersurfaces with an isolated singularity. (English summary) **99e:32066**

32S15 Equisingularity (topological and analytic) [see also 14E15]

Fukui, Toshizumi (*with* Koike, Satoshi; Kuo, Tzee-Char) Blow-analytic equisingularities, properties, problems and progress. **99a:32051**
Gaffney, Terence Equisingularity of plane sections, t_1 condition and the integral closure of modules. **99a:32052**
— Aureoles and integral closure of modules. **99a:32053**
Hà Huy Vui (*with* Phạm Tien Son) Remark on the equisingularity of families of affine plane curves. (English summary) **99c:32052**
Koike, Satoshi *see* **Fukui, Toshizumi; et al., 99a:32051**
Kuo, Tzee-Char *see* **Fukui, Toshizumi; et al., 99a:32051**
Lê Dũng Tráng (*with* Weber, Claude) Équisingularité dans les pinceaux de germes de courbes planes et C^0-suffisance. [Equisingularity in pencils of germs of plane curves and C^0-sufficiency] **99d:32047**
Phạm Tien Son *see* **Hà Huy Vui, 99c:32052**
Ruas, Maria Aparecida Soares (*with* Saia, Marcelo José) The polyhedron of equisingularity of germs of hypersurfaces. **99a:32054**
Saeki, Osamu On topological invariance of weights for quasihomogeneous polynomials. **99b:32052**
Saia, Marcelo José *see* **Ruas, Maria Aparecida Soares, 99a:32054**
Suzuki, Masahiko The blow analytically constant stratum of real analytic singularities. (English summary) **99f:32057**
Tibăr, Mihai Asymptotic equisingularity and topology of complex hypersurfaces. **99k:32057**
Weber, Claude *see* **Lê Dũng Tráng, 99d:32047**

Items with secondary classifications in 32S15

Chen, Hao[1] Deformation of isolated hypersurface singularities and their moduli algebras. (English summary) **99e:32061**

32S20 Global theory of singularities; cohomological properties [see also 14E15]

Aguilar, Marcelo A. (*with* Seade, José; Verjovsky, Alberto) Indices of vector fields and topological invariants of real analytic singularities. (English summary) **99k:32058**
Dimca, Alexandru A sheaf-theoretic view at the topology of polynomials. (English summary) **99a:32055**
Ohmoto, Toru (*with* Suwa, Tatsuo; Yokura, Shoji) A remark on the Chern classes of local complete intersections. **99b:32053**
Seade, José (*with* Suwa, Tatsuo) An adjunction formula for local complete intersections. **99k:32059**
— *see also* **Aguilar, Marcelo A.; et al., 99k:32058**
Suwa, Tatsuo Chern classes of local complete intersections with isolated singularities. **99j:32039**
— *see also* **Ohmoto, Toru; et al., 99b:32053** *and* **Seade, José, 99k:32059**
Verjovsky, Alberto *see* **Aguilar, Marcelo A.; et al., 99k:32058**
Yokura, Shoji *see* **Ohmoto, Toru; et al., 99b:32053**

Items with secondary classifications in 32S20

Dimca, Alexandru Monodromy at infinity for polynomials in two variables. **99h:32040**
Silvotti, Roberto On the Poincaré polynomial of a complement of hyperplanes. **99d:52011**
Yoshikawa, Ken-ichi Smoothing of isolated hypersurface singularities and Quillen metrics. (English summary) **99m:58204**

32S25 (Hyper-) surface singularities [see also 14J17]

Barlet, Daniel Théorie des (a, b)-modules. II. Extensions. [Theory of (a, b)-modules. II. Extensions] **99b:32054**
Geandier, Françoise I. $\mathbf{C}\{\{b\}\}$-modules et système de Gauss-Manin. II. Valuation sur un (a, b)-module quasi-unipotent et bases de Saïto. [I. $\mathbf{C}\{\{b\}\}$-modules and Gauss-Manin system. II. Valuation on a quasi-unipotent (a, b)-module and Saito bases] **99a:32056**
Gusein-Zade, Sabir M. (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) Zeta functions of germs of meromorphic functions, and the Newton diagram. (Russian. Russian summary) **99j:32040**
Ishii, Shihoko (*with* Tomari, Masataka) Hypersurface non-rational singularities which look like canonical from its Newton boundary. **99m:32044**
Kanesaka, Naohiro Hypersurface purely elliptic singularities of $(0, 1)$-type. **99k:32060**
Luengo, Ignacio *see* **Gusein-Zade, Sabir M.; et al., 99j:32040**
Melle-Hernández, Alejandro *see* **Gusein-Zade, Sabir M.; et al., 99j:32040**
Okuma, Tomohiro The pluri-genera of surface singularities. (English summary) **99h:32039**
Palamodov, V. P. Special functions of several variables. **99m:32045**
Tomari, Masataka *see* **Ishii, Shihoko, 99m:32044**

Items with secondary classifications in 32S25

Balke, Ludwig (*with* Kaess, Alexandra; Neuschäfer, Uta; Rothenhäusler, Frank; Scheidt, Stefan) Polyhedral fundamental domains for discrete subgroups of $\mathrm{PSL}(2, \mathbf{R})$. (English summary) **99j:22017**
Barlet, Daniel La variation pour une hypersurface ayant une singularité isolée relativement à la valeur propre 1. [Variation for a hypersurface with an isolated singularity with respect to the eigenvalue 1] **99e:32063**
Gawlick, Thomas ★ Mordell-Weil-Gitter und exotische Deformationen von Viereckssingularitäten der Einbettungsdimension drei. (German) [Mordell-Weil lattices and exotic deformations of quadrilateral singularities of embedding dimension three] **99b:32055**
Gómez-Mont, Xavier (*with* Mardešić, Pavao) The index of a vector field tangent to a hypersurface and the signature of the relative Jacobian determinant. (English and French summaries) **99g:32062**
Kaess, Alexandra *see* **Balke, Ludwig; et al., 99j:22017**
Mardešić, Pavao *see* **Gómez-Mont, Xavier, 99g:32062**
Matsuo, Atsushi Summary of the theory of primitive forms. **99m:32047**
Müller, Gerd Finite automorphism groups of cusp singularities. (English summary) **99c:14050**
Némethi, András Dedekind sums and the signature of $f(x, y) + z^N$. **99m:32050**
Neuschäfer, Uta *see* **Balke, Ludwig; et al., 99j:22017**
Okuma, Tomohiro *see* **Watanabe, Kimio, (97m:58001)**
Parusiński, Adam Blow-analytic retraction onto the central fibre. (English summary) **99b:32058**
Rothenhäusler, Frank *see* **Balke, Ludwig; et al., 99j:22017**
Ruas, Maria Aparecida Soares (*with* Saia, Marcelo José) The polyhedron of equisingularity of germs of hypersurfaces. **99a:32054**
Saia, Marcelo José *see* **Ruas, Maria Aparecida Soares, 99a:32054**
Scheidt, Stefan *see* **Balke, Ludwig; et al., 99j:22017**
Watanabe, Kimio (*with* Okuma, Tomohiro) The second pluri-genus of surface singularities. (*see* **97m:58001**)

32S30 Deformations of singularities; vanishing cycles [see also 14B07]

Chen, Hao[1] Deformation of isolated hypersurface singularities and their moduli algebras. (English summary) **99e:32061**
Damon, James On the legacy of free divisors: discriminants and Morse-type singularities. (English summary) **99e:32062**
Ebeling, Wolfgang (*with* Gusein-Zade, Sabir M.) Suspensions of fat points and their intersection forms. **99k:32061**
Fukui, Toshizumi (*with* Nuno Ballesteros, Juan J.; Saia, Marcelo José) On the number of singularities in generic deformations of map germs. (English summary) **99m:32046**
Gawlick, Thomas ★ Mordell-Weil-Gitter und exotische Deformationen von Viereckssingularitäten der Einbettungsdimension drei. (German) [Mordell-Weil lattices and exotic deformations of quadrilateral singularities of embedding dimension three] **99b:32055**
Greuel, Gert-Martin (*with* Hertling, Claus; Pfister, Gerhard) Moduli spaces of semiquasihomogeneous singularities with fixed principal part. **99a:32057**
Gusein-Zade, Sabir M. Invariants of generic plane curves and invariants of singularities. (English summary) **99b:32056**
— (*with* Varchenko, A. N.) Verlinde algebras and the intersection form on vanishing cycles. (English summary) **99b:32057**
— *see also* **Ebeling, Wolfgang, 99k:32061**
Hertling, Claus *see* **Greuel, Gert-Martin; et al., 99a:32057**
Matsuo, Atsushi Summary of the theory of primitive forms. **99m:32047**
Nuno Ballesteros, Juan J. *see* **Fukui, Toshizumi; et al., 99m:32046**
Pfister, Gerhard *see* **Greuel, Gert-Martin; et al., 99a:32057**
Saia, Marcelo José *see* **Fukui, Toshizumi; et al., 99m:32046**
Saito, Kyoji Duality for regular systems of weights: a précis. **99i:32043**
Satake, Ikuo Flat structure and the prepotential for the elliptic root system of type $D_4^{(1,1)}$. **99k:32062**
Schröter, Caren (*with* Schuba, Sonja) The deformations of the simple space curve singularities. **99k:32063**
Schuba, Sonja *see* **Schröter, Caren, 99k:32063**
Stevens, Jan Degenerations of elliptic curves and equations for cusp singularities. **99k:32064**
Tomaru, Tadashi Maximal ideal cycles of $z^n = f(x, y)$. (Japanese) (*see* **99f:32001**)
Varchenko, A. N. *see* **Gusein-Zade, Sabir M., 99b:32057**

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Akahori, Takao Deformation theory of CR-structures and its application to deformations of isolated singularities. I. **99d:32023**
Blum, Julie D. NS branes in type I theory. (English summary) **99h:81154**
Chalmers, Gordon Implicit metric on a deformation of the Atiyah-Hitchin manifold. (English summary) **99m:58037**
Durfee, Alan H. The index of grad $f(x, y)$. (English summary) **99k:57073**
Epstein, Charles L. Deformations of singularities, complex manifolds and CR-structures. (English summary) **99a:32017**
Houston, Kevin On singularities of folding maps and augmentations. **99k:32070**
de Jong, Theo (*with* van Straten, Duco) Deformation theory of sandwiched singularities. **99j:14002**
Mattei, Jean-François (*with* Salem, Éliane) Classification formelle de feuilletages singuliers de $(\mathbf{C}^2, 0)$. (English and French summaries) [Formal classification of singular foliations of $(\mathbf{C}^2, 0)$] **99c:32059**
Miyajima, Kimio Deformation theory of CR-structures and its application to deformations of isolated singularities. II. **99d:32024**
— Deformations of strongly pseudoconvex CR structures and deformations of normal isolated singularities. (Japanese) **99k:32030**
du Plessis, A. A. (*with* Wall, C. T. C.) Versal deformations in spaces of polynomials of fixed weight. (English summary) **99k:14005**

Sabbah, Claude Frobenius manifolds: isomonodromic deformations and infinitesimal period mappings. **99k:32031**
Salem, Éliane *see* **Mattei, Jean-François**, **99c:32059**
Shubladze, M. Isolated hypersurface singularities of transversal A_{k-1} type. (English summary) **99i:32045**
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Wall, C. T. C. *see* **du Plessis, A. A.**, **99k:14005**

32S35 Mixed Hodge theory of singular varieties [see also 14C30, 14D07]

Ebeling, Wolfgang (*with* Steenbrink, Joseph H. M.) Spectral pairs for isolated complete intersection singularities. (English summary) **99c:32053**
Hamm, Helmut A. Hodge numbers for isolated singularities of non-degenerate complete intersections. **99k:32065**
Némethi, András On the spectrum of curve singularities. **99k:32066**
Steenbrink, Joseph H. M. Du Bois invariants of isolated complete intersection singularities. (English and French summaries) **99f:32058**
— *see also* **Ebeling, Wolfgang**, **99c:32053**
Tu, Lihuang Asymptotic Hodge theory in several variables: the flat case. (English summary) **99c:32054**

Items with secondary classifications in 32S35

Kulikov, Valentin S. ★ Mixed Hodge structures and singularities. (English summary) **99d:14009**

32S40 Monodromy; relations with differential equations and D-modules

Barlet, Daniel La variation pour une hypersurface ayant une singularité isolée relativement à la valeur propre 1. [Variation for a hypersurface with an isolated singularity with respect to the eigenvalue 1] **99e:32063**
Biosca, Hélène (*with* Briancon, Joël; Maisonobe, Philippe; Maynadier, Hélène) Espaces conormaux relatifs. II. Modules différentiels. [Relative conormal spaces. II. Differential modules] **99i:32044**
Briancon, Joël *see* **Biosca, Hélène; et al.**, **99i:32044**
Cooper, Thomas (*with* Mond, David) Complex monodromy and changing real pictures. **99k:32067**
Dimca, Alexandru Monodromy at infinity for polynomials in two variables. **99h:32040**
Gavrilov, Lubomir Modules of Abelian integrals. (English summary) **99e:32064**
Maisonobe, Philippe *see* **Biosca, Hélène; et al.**, **99i:32044**
Maynadier, Hélène Polynômes de Bernstein-Sato associés à une intersection complète quasi-homogène à singularité isolée. (English and French summaries) [Bernstein-Sato polynomials associated with a weighted homogeneous complete intersection with isolated singularity] **99f:32059**
— *see also* **Biosca, Hélène; et al.**, **99i:32044**
Mond, David *see* **Cooper, Thomas**, **99k:32067**
Orevkov, S. Yu. Realizability of a braid monodromy by an algebraic function in a disk. (English and French summaries) **99m:32048**
Prokhorovich, T. N. *see* **Vasilevich, N. D.**, **99m:32049**
Siersma, Dirk (*with* Tibăr, Mihai) Topology of polynomial functions and monodromy dynamics. (English and French summaries) **99k:32068**
Tibăr, Mihai *see* **Siersma, Dirk**, **99k:32068**
Vasilevich, N. D. (*with* Prokhorovich, T. N.) On a special case of a Fuchsian system. (Russian. English and Russian summaries) **99m:32049**

Items with secondary classifications in 32S40

Barlet, Daniel Théorie des (a,b)-modules. II. Extensions. [Theory of (a,b)-modules. II. Extensions] **99b:32054**
Belgrade, Ridha Intégration dans les fibres, transformée de Mellin et conjugaison d'un $\mathscr{D}$-module holonome irrégulier. [Integration in fibers, Mellin transform and conjugation of an irregular holonomic $\mathscr{D}$-module] **99d:32010**
Cerveau, D. (*with* Loray, F.) Un théorème de Frobenius singulier via l'arithmétique élémentaire. (French summary) [A singular Frobenius theorem via elementary arithmetic] **99e:32057**
Dimca, Alexandru A sheaf-theoretic view at the topology of polynomials. (English summary) **99a:32055**
Geandier, Françoise I. $\mathbf{C}\{\{b\}\}$-modules et système de Gauss-Manin. II. Valuation sur un (a,b)-module quasi-unipotent et bases de Saïto. [I. $\mathbf{C}\{\{b\}\}$-modules and Gauss-Manin system. II. Valuation on a quasi-unipotent (a,b)-module and Saito bases] **99a:32056**
Gusein-Zade, Sabir M. (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) Zeta functions of germs of meromorphic functions, and the Newton diagram. (Russian. Russian summary) **99j:32040**
Kashiwara, Masaki Semisimple holonomic $\mathscr{D}$-modules. **99m:32013**
Kimura, Hironobu On rational de Rham cohomology associated with the generalized Airy function. **99c:32030**
Kollár, János Singularities of pairs. **99m:14033**
Loray, F. *see* **Cerveau, D.**, **99e:32057**
Luengo, Ignacio *see* **Gusein-Zade, Sabir M.; et al.**, **99j:32040**
Melle-Hernández, Alejandro *see* **Gusein-Zade, Sabir M.; et al.**, **99j:32040**
Morita, Kenji On the basis of twisted de Rham cohomology. (English summary) **99m:14037**
Procesi, Claudio Complements of subspaces and conical singularities. (Italian. English and Italian summaries) **99a:32024**
Sabbah, Claude Monodromy at infinity and Fourier transform. (English summary) **99f:14011**
Shatalov, V. E. *see* **Sternin, Boris Yu.**, **99d:34106**
Sternin, Boris Yu. (*with* Shatalov, V. E.) Alien differential calculus and resurgent equations. (Russian. Russian summary) **99d:34106**

32S45 Modifications; resolution of singularities [see also 14E15]

Benazic Tome, Renato Mario A resolution theorem for absolutely isolated singularities of holomorphic vector fields. (English summary) **99c:32055**
Nakajima, Hiraku Gauge theory on resolutions of simple singularities and affine Lie algebras. **99c:32056**

Items with secondary classifications in 32S45

Abhyankar, S. S. ★ Resolution of singularities of embedded algebraic surfaces. (English summary) **99c:14021**
Diaconescu, Duiliu-Emanuel (*with* Entin, Rami) Calabi-Yau spaces and five-dimensional field theories and exceptional gauge symmetry. (English summary) **99m:81178**
Durfee, Alan H. The index of grad $f(x,y)$. (English summary) **99k:57073**
Entin, Rami *see* **Diaconescu, Duiliu-Emanuel**, **99m:81178**
González-Sprinberg, Gérard (*with* Lejeune-Jalabert, Monique) Families of smooth curves on surface singularities and wedges. (English summary) **99c:14002**
Gusein-Zade, Sabir M. (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) Zeta functions of germs of meromorphic functions, and the Newton diagram. (Russian. Russian summary) **99j:32040**
Hauser, Herwig Seventeen obstacles for resolution of singularities. **99g:14016**
Hori, Kentaro (*with* Ooguri, Hirosi; Vafa, Cumrun) Non-abelian conifold transitions and $N=4$ dualities in three dimensions. (English summary) **99a:81140**
Lejeune-Jalabert, Monique *see* **González-Sprinberg, Gérard**, **99c:14002**
Luengo, Ignacio *see* **Gusein-Zade, Sabir M.; et al.**, **99j:32040**
Melle-Hernández, Alejandro *see* **Gusein-Zade, Sabir M.; et al.**, **99j:32040**
Miyajima, Kimio Deformation theory of CR-structures and its application to deformations of isolated singularities. II. **99d:32024**
Muto, Tomomi D-branes on orbifolds and topology change. (English summary) **99h:81178**
Ooguri, Hirosi *see* **Hori, Kentaro; et al.**, **99a:81140**
Sanz, Fernando Non-oscillating solutions of analytic gradient vector fields. (English and French summaries) **99k:32071**
Vafa, Cumrun *see* **Hori, Kentaro; et al.**, **99a:81140**

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

Artal-Bartolo, Enrique (*with* Cassou-Noguès, Pierrette; Dimca, Alexandru) Sur la topologie des polynômes complexes. [On the topology of complex polynomials] **99k:32069**
Cassou-Noguès, Pierrette *see* **Artal-Bartolo, Enrique; et al.**, **99k:32069**
Dimca, Alexandru *see* **Artal-Bartolo, Enrique; et al.**, **99k:32069**
(Fukui, Toshizumi) *see* **Errata: "Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga)"**, **(99a:00050)**
Houston, Kevin On singularities of folding maps and augmentations. **99k:32070**
(Suzuki, Masahiko) *see* **Errata: "Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga)"**, **(99a:00050)**
Timm, Mathew Links of certain singularities. (English summary) **99e:32065**
(Yoshinaga, Etsuo) *see* **Errata: "Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga)"**, **(99a:00050)**

Items listed otherwise than by author

Errata:
"Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga)" Erratum: "Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga)" [in Sūrikaisekikenkyūsho Kōkyūroku No. 952 (1996), 50–57; see MR 97m:58001] by T. Fukui and M. Suzuki. (Japanese summary) (*see* **99a:00050**)

Items with secondary classifications in 32S50

Comte, Georges Multiplicity of complex analytic sets and bi-Lipschitz maps. (English summary) **99a:32048**

32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

Hà Huy Vui (*with* Phạm Tien Son) Invariance of the global monodromies in families of polynomials of two complex variables. (English summary) **99f:32060**
Kaenders, Rainer The Seifert form of a plane curve singularity determines its intersection multiplicities. **99d:32048**
Némethi, András Dedekind sums and the signature of $f(x,y)+z^N$. **99m:32050**
Parusiński, Adam Blow-analytic retraction onto the central fibre. (English summary) **99b:32058**
Phạm Tien Son *see* **Hà Huy Vui**, **99f:32060**
Shubladze, M. Isolated hypersurface singularities of transversal A_{k-1} type. (English summary) **99i:32045**
Tibăr, Mihai Topology at infinity of polynomial mappings and Thom regularity condition. (English summary) **99a:32058**
Yu, Jian Ming (*with* Zou, Jian Cheng) A simple introduction to singularity theory. (Chinese. English and Chinese summaries)
Zaharia, Maria Ioachim The homology of the Milnor fiber of a function germ defined on an arrangement of hyperplanes. **99d:32049**
Zou, Jian Cheng *see* **Yu, Jian Ming**

Items with secondary classifications in 32S55

Aguilar, Marcelo A. (*with* Seade, José; Verjovsky, Alberto) Indices of vector fields and topological invariants of real analytic singularities. (English summary) **99k:32058**
Artal-Bartolo, Enrique (*with* Cassou-Noguès, Pierrette; Dimca, Alexandru) Sur la topologie des polynômes complexes. [On the topology of complex polynomials] **99k:32069**

Benazic Tome, Renato Mario A resolution theorem for absolutely isolated singularities of holomorphic vector fields. (English summary) **99c:32055**
Benedetti, Riccardo (*with* Shiota, Masahiro) On real algebraic links in S^3. (Italian summary) **99k:57007**
Blanlœil, Vincent Cobordism of nonspherical links. **99d:57015**
Boileau, Michel (*with* Fourrier, Laurence) Knot theory and plane algebraic curves. (English summary) **99e:57009**
Cassou-Noguès, Pierrette *see* **Artal-Bartolo, Enrique; et al., 99k:32069**
Dimca, Alexandru (*with* Paunescu, L.) Real singularities and dihedral representations. (English summary) **99g:14070**
— *see also* **Artal-Bartolo, Enrique; et al., 99k:32069**
Ebeling, Wolfgang (*with* Steenbrink, Joseph H. M.) Spectral pairs for isolated complete intersection singularities. (English summary) **99c:32053**
Fourrier, Laurence *see* **Boileau, Michel, 99e:57009**
Gusein-Zade, Sabir M. (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) Zeta functions of germs of meromorphic functions, and the Newton diagram. (Russian. Russian summary) **99j:32040**
Hà Huy Vui (*with* Phạm Tien Son) Remark on the equisingularity of families of affine plane curves. (English summary) **99c:32052**
Kearton, C. (*with* Saeki, Osamu; Wilson, S. M. J.) Finiteness results for knots and singularities. (English summary) **99e:57037**
Luengo, Ignacio *see* **Gusein-Zade, Sabir M.; et al., 99j:32040**
Melle-Hernández, Alejandro *see* **Gusein-Zade, Sabir M.; et al., 99j:32040**
Miyajima, Kimio Deformation theory of CR-structures and its application to deformations of isolated singularities. II. **99d:32024**
Paunescu, L. *see* **Dimca, Alexandru, 99g:14070**
Phạm Tien Son *see* **Hà Huy Vui, 99c:32052**
Saeki, Osamu *see* **Kearton, C.; et al., 99e:57037**
Seade, José (*with* Suwa, Tatsuo) An adjunction formula for local complete intersections. **99k:32059**
— *see also* **Aguilar, Marcelo A.; et al., 99k:32058**
Shiota, Masahiro *see* **Benedetti, Riccardo, 99k:57007**
Steenbrink, Joseph H. M. Du Bois invariants of isolated complete intersection singularities. (English and French summaries) **99f:32058**
— *see also* **Ebeling, Wolfgang, 99c:32053**
Suwa, Tatsuo *see* **Seade, José, 99k:32059**
Tibár, Mihai Asymptotic equisingularity and topology of complex hypersurfaces. **99k:32057**
Verjovsky, Alberto *see* **Aguilar, Marcelo A.; et al., 99k:32058**
Wilson, S. M. J. *see* **Kearton, C.; et al., 99e:57037**

32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58C27]

Brasselet, Jean-Paul Classes caractéristiques et nombres caractéristiques des ensembles analytiques complexes: un bilan. [On characteristic classes and characteristic numbers of complex analytic fields] **99c:32057**
Mebkhout, Zoghman (*with* Narváez-Macarro, Luis) Le théorème de constructibilité de Kashiwara. [The Kashiwara constructibility theorem] **99g:32061**
Narváez-Macarro, Luis *see* **Mebkhout, Zoghman, 99g:32061**
Ta Lê Loi Verdier and strict Thom stratifications in o-minimal structures. **99c:32058**

Items with secondary classifications in 32S60

Dimca, Alexandru A sheaf-theoretic view at the topology of polynomials. (English summary) **99a:32055**
Ernström, Lars (*with* Ohmoto, Toru; Yokura, Shoji) On topological Radon transformations. (English summary) **99a:14011**
Gaffney, Terence Equisingularity of plane sections, t_1 condition and the integral closure of modules. **99a:32052**
— Aureoles and integral closure of modules. **99a:32053**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Vanishing theorems for constructible sheaves. II. **99k:32052**
— On stratified Morse theory. **99i:58008**
Lê Dũng Tráng *see* **Hamm, Helmut A., 99k:32052**
Ohmoto, Toru *see* **Ernström, Lars; et al., 99a:14011**
Yokura, Shoji *see* **Ernström, Lars; et al., 99a:14011**

32S65 Singularities of holomorphic vector fields

Ghys, E. (*with* Rebelo, J.-C.) Singularités des flots holomorphes. II. (English and French summaries) [Singularities of holomorphic flows. II] **99a:32059**
Gómez-Mont, Xavier (*with* Mardešić, Pavao) The index of a vector field tangent to a hypersurface and the signature of the relative Jacobian determinant. (English and French summaries) **99g:32062**
— An algebraic formula for the index of a vector field on a hypersurface with an isolated singularity. **99f:32061**
Lehmann, Daniel Une généralisation des nombres de Milnor pour les intersections complètes à singularités non isolées. [A generalization of Milnor numbers for complete intersections with nonisolated singularities] (*see* **99k:57001**)
Lins Neto, A. Holomorphic rank of hypersurfaces with an isolated singularity. (English summary) **99e:32066**
Mardešić, Pavao *see* **Gómez-Mont, Xavier, 99g:32062**
Rebelo, J.-C. *see* **Ghys, E., 99a:32059**
Rouillé, Patrick Sur les polaires de certaines 1-formes. (English and French summaries) [On the polars of certain one-forms] **99g:32063**
Sancho de Salas, F. (*with* Sancho de Salas, P.) Absolutely isolated singularities of a differential equation. (English summary) **99d:32050**
Sancho de Salas, P. *see* **Sancho de Salas, F., 99d:32050**
Sanz, Fernando Non-oscillating solutions of analytic gradient vector fields. (English and French summaries) **99k:32071**
Stolovitch, Laurent Complète intégrabilité singulière. (English and French summaries) [Singular complete integrability] **99h:32041**
Suwa, Tatsuo ★ Indices of vector fields and residues of singular holomorphic foliations. (English summary) **99h:32042**
Voronin, S. M. Invariants for singular points of holomorphic vector fields on the complex plane. **99i:32046**
— Orbital analytic equivalence of degenerate singular points of holomorphic vector fields on the complex plane. (Russian) **99j:32041**

Items with secondary classifications in 32S65

Benazic Tome, Renato Mario A resolution theorem for absolutely isolated singularities of holomorphic vector fields. (English summary) **99c:32055**
Brylinski, Jean-Luc (*with* Zuckerman, Gregg J.) The outer derivation of a complex Poisson manifold. (English summary) **99k:58064**
Majima, Hideyuki Vanishing theorems in asymptotic analysis. III. Applications to confluent hypergeometric differential equations. **99e:32014**
Zuckerman, Gregg J. *see* **Brylinski, Jean-Luc, 99k:58064**

32S70 Other operations on singularities

Mattei, Jean-François (*with* Salem, Éliane) Classification formelle de feuilletages singuliers de $(\mathbf{C}^2, 0)$. (English and French summaries) [Formal classification of singular foliations of $(\mathbf{C}^2, 0)$] **99c:32059**
Salem, Éliane *see* **Mattei, Jean-François, 99c:32059**

Items with secondary classifications in 32S70

Barlet, Daniel (*with* Maire, H.-M.) Décroissance rapide de la distribution f^λ. (English summary) [Rapid decrease of the distribution f^λ] **99c:32005**
Maire, H.-M. *see* **Barlet, Daniel, 99c:32005**

33–XX Special functions {33–XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11–XX; for representation theory, see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 33–00

Berndt, Bruce C. ★ Ramanujan's notebooks. Part V. (English summary) **99f:11024**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 99f:11024**

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Andrews, Larry C. ★ Special functions of mathematics for engineers. (English summary) **99a:33001**

33–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 33–02

(Groza, A. A.) *see* **Vilenkin, N. Ya., 99f:33019**
(Groza, V. A.) *see* **Vilenkin, N. Ya., 99f:33019**
Klimyk, A. U. *see* **Vilenkin, N. Ya., 99f:33019**
Koornwinder, Tom H. Special functions and q-commuting variables. (English summary) **99e:33024**
Levin, A. L. (*with* Lubinsky, D. S.) Bounds for orthogonal polynomials for exponential weights. (English summary) **99k:42051**
Lubinsky, D. S. *see* **Levin, A. L., 99k:42051**
Varchenko, A. N. ★ Multidimensional hypergeometric functions and representation theory of Lie algebras and quantum groups. **99i:32029**
Vilenkin, N. Ya. (*with* Klimyk, A. U.) ★ Representation of Lie groups and special functions. (English summary) **99f:33019**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

Agarwal, Ratan Prakash ★ Resonance of Ramanujan's mathematics. Vol. I. (English summary) **99h:11001a**
— ★ Resonance of Ramanujan's mathematics. Vol. II. (English summary) **99h:11001b**
Berndt, Bruce C. ★ Ramanujan's notebooks. Part V. (English summary) **99f:11024**
— An overview of Ramanujan's notebooks. (English summary) **99k:01032**
(Jacobi, Carl Gustav Jacob) *see* **Correspondence: Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob, 99i:01022**
(Knobloch, Eberhard) *see* **Correspondence: Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob, 99i:01022**
(Legendre, Adrien-Marie) *see* **Correspondence: Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob, 99i:01022**
(Mai, B.) *see* **Correspondence: Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob, 99i:01022**
(Pieper, Herbert) *see* **Correspondence: Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob, 99i:01022**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 99f:11024; Agarwal, Ratan Prakash, 99h:11001a; 99h:11001b** *and* **Berndt, Bruce C., 99k:01032**

Items listed otherwise than by author

Biography:
Jacobi, Carl Gustav Jacob ★ Korrespondenz Adrien-Marie Legendre–Carl Gustav Jacob Jacobi. (German) [The correspondence of Adrien-Marie Legendre and Carl Gustav Jacob Jacobi] **99i:01022**
Correspondence:
Legendre, Adrien-Marie–Jacobi, Carl Gustav Jacob ★ Korrespondenz Adrien-Marie Legendre–Carl Gustav Jacob Jacobi. (German) [The correspondence of Adrien-Marie Legendre and Carl Gustav Jacob Jacobi] **99i:01022**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 33–04

Forrey, Robert C. Computing the hypergeometric function. (English summary) **99g:33004**

33–06 Proceedings, conferences, collections, etc.

(Durán Guardeño, Antonio J.) *see* **Proceedings: Symposium on Orthogonal Polynomials and Their Applications, 99h:33001**
(Jagannathan, Ramaswamy) *see* **Special functions and differential equations, 99h:33002**
(Srinivasa Rao, K.) *see* **Special functions and differential equations, 99h:33002**
(Vanden Berghe, Guido) *see* **Special functions and differential equations, 99h:33002**
(Van der Jeugt, Joris) *see* **Special functions and differential equations, 99h:33002**

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Madras ★ Special functions and differential equations. **99h:33002**
Proceedings:
Symposium on Orthogonal Polynomials and Their Applications ★ Proceedings of the VIIIth Symposium on Orthogonal Polynomials and Their Applications. **99h:33001**
Seville ★ Proceedings of the VIIIth Symposium on Orthogonal Polynomials and Their Applications. **99h:33001**
Special functions and differential equations ★ Special functions and differential equations. **99h:33002**
Symposium:
Orthogonal Polynomials and Their Applications ★ Proceedings of the VIIIth Symposium on Orthogonal Polynomials and Their Applications. **99h:33001**
Workshop:
Special Functions and Differential Equations ★ Special functions and differential equations. **99h:33002**

Items with secondary classifications in 33–06

(Dimovski, I. H.) *see* **Transform methods & special functions, 99i:00031**
(Kiryakova, Virginia S.) *see* **Transform methods & special functions, 99i:00031**
(Obreschkoff, Nikola) *see* **Transform methods & special functions, 99i:00031**
(Rusev, Pet″r K.) *see* **Transform methods & special functions, 99i:00031**

Items listed otherwise than by author

Anniversary:
Birth of Obreschkoff, Nikola ★ Transform methods & special functions, Varna '96. **99i:00031**
Transform methods & special functions ★ Transform methods & special functions, Varna '96. **99i:00031**
Varna ★ Transform methods & special functions, Varna '96. **99i:00031**
Workshop:
Transform Methods & Special Functions ★ Transform methods & special functions, Varna '96. **99i:00031**

33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

van Berkel, C. A. M. (*with* de Graaf, Jan) The Fourier-Jacobi transform of analytic functions which are (almost) periodic in the imaginary direction. (English summary) **99k:33001**
Fisher, Brian (*with* Nicholas, Joel D.) The exponential integral and the convolution. (English summary) **99h:33003**
Goel, Sudhir *see* **Kicey, Charles, 99f:33001**
de Graaf, Jan *see* **van Berkel, C. A. M., 99k:33001**
Kicey, Charles (*with* Goel, Sudhir) A series for $\ln k$. **99f:33001**
Lindqvist, Peter Some remarkable sine and cosine functions. (English summary) **99g:33001**
Nekrashevych, V. V. On the limit behavior of iterations of a logarithm. (Russian) (*see* **99a:00017**)
Nicholas, Joel D. *see* **Fisher, Brian, 99h:33003**
Niizeki, Syôzô (*with* Sasaki, Masato; Srivastava, Hari M.) Further remarks on the integral of $\exp(-x^2)$ over **R**. (English summary) **99d:33001**
Sasaki, Masato *see* **Niizeki, Syôzô; et al., 99d:33001**
Srivastava, Hari M. *see* **Niizeki, Syôzô; et al., 99d:33001**

Items with secondary classifications in 33B10

Ahmad, Faiz The orthogonal polynomials and the Padé approximation. (English summary)
Anderson, G. D. (*with* Qiu, Songliang; Vuorinen, Matti K.) Precise estimates for differences of the Gaussian hypergeometric function. (English summary) **99k:33010**
Boyd, John Philip Global approximations to the principal real-valued branch of the Lambert W-function. (English summary) **99h:30035**
Bustoz, Joaquin (*with* Suslov, Sergei K.) Basic analog of Fourier series on a q-quadratic grid. (English summary) **99e:33020**
Jeffrey, D. J. Rectifying transformations for the integration of rational trigonometric functions. (English summary) **99m:26011**
Qi, Feng A method of constructing inequalities about e^x. (English summary) **99a:26012**
Qiu, Songliang *see* **Anderson, G. D.; et al., 99k:33010**
Santilli, Ruggero Maria Isotopic liftings of the Pythagorean theorem, trigonometric and hyperbolic functions. (English summary) (*see* **99e:53001**)
Suslov, Sergei K. *see* **Bustoz, Joaquin, 99e:33020**
Vuorinen, Matti K. *see* **Anderson, G. D.; et al., 99k:33010**

33B15 Gamma, beta and polygamma functions

Adamchik, V. S. Polygamma functions of negative order. (English summary) **99j:33001**
Alzer, Horst A harmonic mean inequality for the gamma function. (English summary) **99b:33001a**
— Inequalities for the gamma and polygamma functions. **99k:33002**
— Corrigendum: "A harmonic mean inequality for the gamma function". **99b:33001b**
— (*with* Wells, Jim) Inequalities for the polygamma functions. (English summary) **99k:33003**
— (*with* Ruehr, O. G.) A submultiplicative property of the psi function. (English summary) **99j:33002**
Čársky, Petr (*with* Polášek, Martin) Incomplete gamma $F_m(x)$ functions for real negative and complex arguments. (English summary) **99e:33001**
Chae, K. C. (*with* Lee, H. K.) A heuristic interpretation of the incomplete beta function ratio. (English summary)
Choi, Junesang (*with* Srivastava, Hari M.; Zhang, Nan-Yue) Integrals involving a function associated with the Euler-Maclaurin summation formula. (English summary) **99h:33004**
Cortés López, J. C. *see* **Jódar, Lucas, 99b:33002**

Giordano, Carla (*with* Laforgia, Andrea; Pečarić, Josip) Unified treatment of Gautschi-Kershaw type inequalities for the gamma function. (English summary) **99k:33004**
Guo, Sen-Lin *see* **Qi, Feng**, **99j:33003**
Hare, D. E. G. Computing the principal branch of log-Gamma. (English summary) **99c:33002**
Jódar, Lucas (*with* Cortés López, J. C.) Some properties of gamma and beta matrix functions. (English summary) **99b:33002**
Laforgia, Andrea *see* **Giordano, Carla; et al.**, **99k:33004**
Lee, H. K. *see* **Chae, K. C.**
López García, José Luis Several series containing gamma and polygamma functions. (English summary) **99h:33005**
Merkle, Milan Conditions for convexity of a derivative and some applications to the gamma function. (English summary) **99d:33002**
— Convexity, Schur-convexity and bounds for the gamma function involving the digamma function. (English summary) **99m:33001**
Miller, Allen R. Remarks on a generalized beta function. (English summary) **99k:33005**
Miura, Kimio Finite sums containing Γ functions and a binomial coefficient. **99e:33001**
Nishizawa, Michitomo *see* **Ueno, Kimio**, **99b:33003**
Palumbo, Biagio A generalization of some inequalities for the gamma function. (English summary) **99c:33003**
Pečarić, Josip *see* **Giordano, Carla; et al.**, **99k:33004**
Polášek, Martin *see* **Čársky, Petr**, **99c:33001**
Qi, Feng (*with* Guo, Sen-Lin) Inequalities for the incomplete gamma and related functions. (English summary) **99j:33003**
Ruehr, O. G. *see* **Alzer, Horst**, **99j:33002**
Sándor, József On the gamma function. II. (*see* **99e:00013**)
Sarabia, José The Rathie's distribution. (Spanish. English and Spanish summaries) **99h:33006**
Sasvári, Zoltán An elementary proof of Binet's formula for the gamma function. **99m:33002**
Srivastava, Hari M. *see* **Choi, Junesang; et al.**, **99h:33004**
Ueno, Kimio (*with* Nishizawa, Michitomo) Multiple gamma functions and multiple q-gamma functions. (English summary) **99b:33003**
Wells, Jim *see* **Alzer, Horst**, **99k:33003**
Zhang, Nan-Yue *see* **Choi, Junesang; et al.**, **99h:33004**

Items with secondary classifications in 33B15

Adamchik, V. S. (*with* Srivastava, Hari M.) Some series of the zeta and related functions. (English summary) **99d:11096**
Agarwal, Ratan Prakash A note on the Mellin and Laplace transform of beta functions. (English summary) **99h:44001**
van Berkel, C. A. M. (*with* de Graaf, Jan) The Fourier-Jacobi transform of analytic functions which are (almost) periodic in the imaginary direction. (English summary) **99k:33001**
Boyadzhiev, L. I. (*with* Dobner, Hans-Jürgen) On automatic differentiation and fractional derivatives. (English summary) (*see* **99m:00024**)
Chen, Ming-Po (*with* Srivastava, Hari M.) Some families of series representations for the Riemann $\zeta(3)$. (English summary) **99b:11095**
Choi, Junesang (*with* Rathie, Arjun K.) An evaluation of $\zeta(2)$. (English summary) **99d:11097**
Dobner, Hans-Jürgen *see* **Boyadzhiev, L. I.**, (**99m:00024**)
Fisher, Brian *see* **Kılıçman, Adem; et al.**, **99d:46056**
de Graaf, Jan *see* **van Berkel, C. A. M.**, **99k:33001**
He, Yu Zan (*with* Yang, Chung-Chun) Meromorphic functions that do not satisfy algebraic differential equations. (Chinese. Chinese summary) **99g:34018**
Hwang, Suk-Geun (*with* Kräuter, Arnold R.) Comparison of permanental bounds of $(0,1)$-matrices. (English summary) **99f:15006**
Jones, William B. (*with* Van Assche, Walter) Asymptotic behavior of the continued fraction coefficients of a class of Stieltjes transforms including the Binet function. **99m:30006**
Jung, Soon-Mo On the modified Hyers-Ulam-Rassias stability of the functional equation for gamma function. **99f:39037**
— On the stability of gamma functional equation. (English summary) **99f:39038**
Kılıçman, Adem (*with* Fisher, Brian; Nicholas, Joel D.) The commutative neutrix product of $B^{(r)}(x,n)$ and $\delta^{(s)}(x)$. (English summary) **99d:46056**
Kim, Yong Sup (*with* Lee, Chang Hyun) Some summation formulas for the series ${}_3F_2(1)$. (English summary) **99h:33022**
Kräuter, Arnold R. *see* **Hwang, Suk-Geun**, **99f:15006**
Lee, Chang Hyun *see* **Kim, Yong Sup**, **99h:33022**
Matsumoto, Kohji Asymptotic series for double zeta and double gamma functions of Barnes. **99g:11102**
Merkes, E. P. (*with* Salmassi, Mohammad) On univalence of certain infinite products. (English summary) **99b:30023**
Nicholas, Joel D. *see* **Kılıçman, Adem; et al.**, **99d:46056**
Niizeki, Syôzô (*with* Sasaki, Masato; Srivastava, Hari M.) Further remarks on the integral of $\exp(-x^2)$ over $\mathbf{R}$. (English summary) **99d:33001**
Rathie, Arjun K. *see* **Choi, Junesang**, **99d:11097**
Salmassi, Mohammad *see* **Merkes, E. P.**, **99b:30023**
Sasaki, Masato *see* **Niizeki, Syôzô; et al.**, **99d:33001**
Shutler, Paul M. E. Euler's constant, Stirling's approximation and the Riemann zeta function. (English summary) **99d:11135**
Srivastava, Hari M. *see* **Chen, Ming-Po**, **99b:11095**; **Adamchik, V. S.**, **99d:11096** *and* **Niizeki, Syôzô; et al.**, **99d:33001**
Tsikh, A. K. *see* **Zhdanov, O. N.**, **99j:30044** *and* **99k:32007**
Van Assche, Walter *see* **Jones, William B.**, **99m:30006**
Yang, Chung-Chun *see* **He, Yu Zan**, **99g:34018**
Zhdanov, O. N. (*with* Tsikh, A. K.) Computation of multiple Mellin-Barnes integrals by means of multidimensional residues. (Russian) **99k:32007**
— (*with* Tsikh, A. K.) Investigation of multiple Mellin-Barnes integrals by means of multidimensional residues. (Russian. Russian summary) **99j:30044**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Miller, Allen R. (*with* Moskowitz, Ira S.) On certain generalized incomplete gamma functions. (English summary) **99h:33007**
Moskowitz, Ira S. *see* **Miller, Allen R.**, **99h:33007**

Items with secondary classifications in 33B20

Lether, Frank G. Shifted rectangular quadrature rule approximations to Dawson's integral $F(x)$. (English summary) **99c:65042**

33Cxx Hypergeometric functions

33C05 Classical hypergeometric functions, ${}_2F_1$

Artés, P. L. (*with* Dehesa, Jesús S.; Martínez-Finkelshtein, Andrei; Sánchez-Ruiz, Jorge) Linearization and connection coefficients for hypergeometric-type polynomials. (English summary) **99k:33006**
Balasubramanian, Ramachandran (*with* Ponnusamy, S.; Vuorinen, Matti K.) Functional inequalities for the quotients of hypergeometric functions. (English summary) **99k:33007**
— (*with* Ponnusamy, S.) On Ramanujan asymptotic expansions and inequalities for hypergeometric functions. (English summary) **99g:33002**
Buschman, R. G. Contiguous function relations for associated hypergeometric functions. (English summary) **99j:33004**
Cortés López, J. C. *see* **Jódar, Lucas**, **99j:33005**
Dehesa, Jesús S. *see* **Artés, P. L.; et al.**, **99k:33006**
Dunkl, Charles F. Monodromy of hypergeometric functions for dihedral groups. (English summary) **99g:33003**
Forrey, Robert C. Computing the hypergeometric function. (English summary) **99g:33004**
Jódar, Lucas (*with* Cortés López, J. C.) On the hypergeometric matrix function. (English summary) **99j:33005**
Khajah, H. G. Tau method approximation of the Gauss hypergeometric function. **99i:33001**
Kuznetsov, Vadim B. ${}_3F_2(1)$ hypergeometric function and quadratic R-matrix algebra. (English summary) **99a:33002**
Martínez-Finkelshtein, Andrei *see* **Artés, P. L.; et al.**, **99k:33006**
Mathur, Rachana (*with* Rathie, Arjun K.) Integrals involving hypergeometric function. I. (English summary) **99g:33005**
Ponnusamy, S. (*with* Vuorinen, Matti K.) Asymptotic expansions and inequalities for hypergeometric functions. (English summary) **99b:33004**
— Role of special functions in function theory. (English summary) **99i:33002**
— *see also* **Balasubramanian, Ramachandran**, **99g:33002** *and* **99k:33007**
Rathie, Arjun K. *see* **Mathur, Rachana**, **99g:33005**
Rusev, Petʺr K. Complete systems of Gauss hypergeometric functions in spaces of holomorphic functions. (English summary) **99h:33008**
Sánchez-Ruiz, Jorge *see* **Artés, P. L.; et al.**, **99k:33006**
Srivastava, Hari M. Bilateral analytic expansions associated with some families of special functions. (English summary) **99h:33009**
Vuorinen, Matti K. Hypergeometric functions in geometric function theory. (English summary) **99i:33003**
— *see also* **Ponnusamy, S.**, **99b:33004** *and* **Balasubramanian, Ramachandran; et al.**, **99k:33007**

Items with secondary classifications in 33C05

Anderson, G. D. (*with* Qiu, Songliang; Vuorinen, Matti K.) Precise estimates for differences of the Gaussian hypergeometric function. (English summary) **99k:33010**
Atakishiev, N. M. Continuous solutions of difference equations and their orthogonality relations. (English summary) **99a:39005**
Bolia, Mamta *see* **Raina, Ravinder Krishna**, **99m:26010** *and* **99m:30026**
Chan, Heng Huat On Ramanujan's cubic transformation formula for ${}_2F_1(\frac{1}{3},\frac{2}{3};1;z)$. (English summary) **99f:11054**
Choi, Junesang (*with* Rathie, Arjun K.) An evaluation of $\zeta(2)$. (English summary) **99d:11097**
Katsurada, Masanori Mellin-Barnes' type integrals and power series with the Riemann zeta-function in the coefficients. **99b:11096**
Majumdar, N. K. On the unification of trilateral generating functions for certain special functions. (English summary) **99f:33013**
Nishimoto, Katsuyuki Kummer's twenty-four functions in N-fractional calculus. (English summary) **99a:26005**
— N-fractional calculus operator N^v method to nonhomogeneous Gauss equation. (English summary) **99a:26006**
Owa, Shigeyoshi (*with* Srivastava, Hari M.) Distortion inequalities for Ruscheweyh derivatives. (English summary) **99c:30026**
Ponnusamy, S. Close-to-convexity properties of Gaussian hypergeometric functions. (English summary) **99c:30029**
Qiu, Songliang *see* **Anderson, G. D.; et al.**, **99k:33010**
Rahman, Mizan Some cubic summation and transformation formulas. (English summary) **99d:33023**
Raina, Ravinder Krishna (*with* Bolia, Mamta) On certain classes of distortion theorems involving generalized fractional integral operators. (English summary) **99m:30026**
— (*with* Bolia, Mamta) On a certain subclass of analytic functions involving certain fractional calculus operators. (English summary) **99m:26010**
Rathie, Arjun K. *see* **Choi, Junesang**, **99d:11097**
Shen, Li-Chien On an identity of Ramanujan based on the hypergeometric series ${}_2F_1(\frac{1}{3},\frac{2}{3};\frac{1}{2};x)$. (English summary) **99d:11042**
Shiga, Hironori On the arithmetic properties of the modular function induced from the hypergeometric differential equation of type $(3,6)$. (English summary) **99f:32033**
Srivastava, Hari M. *see* **Owa, Shigeyoshi**, **99c:30026**
Tsuzuki, Masao Real Shintani functions and multiplicity free property for the symmetric pair $(\mathrm{SU}(2,1), \mathrm{S}(\mathrm{U}(1,1)\times\mathrm{U}(1)))$. (English summary) **99f:11066**

Vuorinen, Matti K. *see* **Anderson, G. D.; et al., 99k:33010**
Wimp, Jet The umbral calculus and identities for hypergeometric functions with special arguments. (English summary) **99i:05023**

33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

Aguirre Téllez, Manuel Antonio (*with* Cerutti, Rubén Alejandro) Causal (anticausal) Bessel derivative and the ultrahyperbolic Bessel operator. (English summary) **99g:33006**
Baran Majumdar, Asit Some generating functions of Bessel polynomials by group-theoretic method. (English summary) **99c:33004**
Ben Cheikh, Youssèf Decomposition of the Bessel functions with respect to the cycle group of order n. (English summary) **99g:33007**
Cabrera Suárez, Francisco S. *see* **Hayek Calil, Nácere; et al., (99d:00018)**
Cerutti, Rubén Alejandro *see* **Aguirre Téllez, Manuel Antonio, 99g:33006**
Chaurasia, V. B. L. (*with* Sharma, Rajendra Pal) Two-dimensional exponential Bessel expansion of a general class of polynomials and the multivariable H-function. (English summary) **99g:33008**
Chiccoli, C. *see* **Lorenzutta, S.; et al., 99f:33002**
Chorlton, Frank Studies in Bessel functions via Laplace transforms. **99h:33010**
Dattoli, G. (*with* Lorenzutta, S.; Maino, G.; Torre, Amalia) Theory of multiindex multivariable Bessel functions and Hermite polynomials. (English summary) **99h:33011**
— (*with* Torre, Amalia; Lorenzutta, S.; Maino, G.) Generalized Bessel functions and Kapteyn series. (English summary) **99d:33003**
— *see also* **Lorenzutta, S.; et al., 99c:33006** *and* **99f:33002**
Elbert, Árpád (*with* Laforgia, Andrea) Asymptotic expansion for zeros of Bessel functions and of their derivatives for large order. (English summary) **99h:33012**
— (*with* Laforgia, Andrea) An upper bound for the zeros of the cylinder function $C_\nu(x)$. (English summary) **99c:33005**
El Kamel, J. (*with* Fitouhi, A.) Expansion in terms of Gegenbauer polynomials for solutions of a perturbed Gegenbauer differential equation. (English summary) **99b:33005**
Fitouhi, A. *see* **El Kamel, J., 99b:33005**
González Rodríguez, Benito (*with* Negrin, Emilio R.) Some analytic features concerning the Neumann second series of Bessel functions. (English summary) **99b:33006**
Han, Zhen Lai *see* **Shi, Yu Ming[1]; et al., 99m:33003**
Hayek Calil, Nácere (*with* Hernández Suárez, Víctor; Cabrera Suárez, Francisco S.) Asymptotic solutions of the nth-order Bessel-Clifford differential equation. (Spanish) (*see* **99d:00018**)
Hernández Suárez, Víctor *see* **Hayek Calil, Nácere; et al., (99d:00018)**
Kar, Sujit Kumar On a general class of generating functions involving modified Bessel polynomials. (English summary) **99e:33002**
Khan, Mumtaz Ahmad (*with* Shukla, Ajay Kumar) On Laguerre polynomials of several variables. (English summary) **99h:33013**
Laforgia, Andrea *see* **Elbert, Árpád, 99c:33005** *and* **99h:33012**
Lorenzutta, S. (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Tocci, D.) A note on generalized Bessel functions and Fourier series. (English and Italian summaries) **99c:33006**
— (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Chiccoli, C.) Infinite-variable Bessel functions of the Anger type and the Fourier expansions. (English summary) **99f:33002**
— *see also* **Dattoli, G.; et al., 99d:33003** *and* **99h:33011**
MacDonald, Duncan Anthony On the computation of zeroes of $J_n(z) - iJ_{n+1}(z) = 0$. (English summary) **99c:33007**
Maino, G. *see* **Lorenzutta, S.; et al., 99c:33006**; **Dattoli, G.; et al., 99d:33003**; **Lorenzutta, S.; et al., 99f:33002** *and* **Dattoli, G.; et al., 99h:33011**
Melka, Richard *see* **Yousif, Hashim A., 99e:33003**
Miller, Allen R. Incomplete Lipschitz-Hankel integrals of Anger and Weber functions. (English summary) **99i:33004**
Miroshin, R. N. An asymptotic estimate for the integral of the product of two modified Bessel functions and a power function. (Russian) **99h:33014**
Mukherjee, Manik Chandra Application of modified Jacobi partial differential operators to partial differential equations. **99h:33015**
Negrin, Emilio R. *see* **González Rodríguez, Benito, 99b:33006**
Qu, C. K. (*with* Wong, Roderick) "Best possible" upper and lower bounds for the zeros of the Bessel function $J_\nu(x)$. (English summary) **99j:33006**
Reid, W. H. Integral representations for products of Airy functions. II. Cubic products. (English summary) **99h:33016**
— Integral representations for products of Airy functions. III. Quartic products. (English summary) **99h:33017**
Samaddar, S. N. Some integrals associated with diffraction of single-cycle sinusoids by a circular conducting disk. (English summary) **99h:33018**
Sharma, Rajendra Pal *see* **Chaurasia, V. B. L., 99g:33008**
Shi, Yu Ming[1] (*with* Han, Zhen Lai; Zhu, Dongmei) The generalized Airy functions. (English summary) **99m:33003**
Shimomura, Shun Asymptotic expansions and Stokes multipliers of the confluent hypergeometric function Φ_2. II. Behaviour near (∞, ∞) in $\mathrm{P}^1(\mathbf{C}) \times \mathrm{P}^1(\mathbf{C})$. **99h:33019**
Shukla, Ajay Kumar *see* **Khan, Mumtaz Ahmad, 99h:33013**
Tocci, D. *see* **Lorenzutta, S.; et al., 99c:33006**
Torre, Amalia *see* **Lorenzutta, S.; et al., 99c:33006**; **Dattoli, G.; et al., 99d:33003**; **Lorenzutta, S.; et al., 99f:33002** *and* **Dattoli, G.; et al., 99h:33011**
Wong, Roderick *see* **Qu, C. K., 99j:33006**
Yousif, Hashim A. (*with* Melka, Richard) Bessel function of the first kind with complex argument. (English summary) **99e:33003**
Zhu, Dongmei *see* **Shi, Yu Ming[1]; et al., 99m:33003**

Items with secondary classifications in 33C10

Abad, Julio (*with* Sesma, Javier) Buchholz polynomials: a family of polynomials relating solutions of confluent hypergeometric and Bessel equations. (English summary) **99j:33007**
Al-Jarrah, Ali A. *see* **Glasser, M. Lawrence, 99k:33012**
Al-oushoush, Nizar *see* **Mu, Le Hua, 99i:30057**
Ben Ghanem, Riadh (*with* Frappier, Clément) Explicit quadrature formulae for entire functions of exponential type. (English summary) **99k:41048**
Betancor, Jorge J. (*with* Jerez Diaz, C.) New inversion formulas for the Hankel transformations. (English summary) **99i:44004**
— (*with* Rodríguez-Mesa, Lourdes) Lipschitz-Hankel spaces, partial Hankel integrals and Bochner-Riesz means. (English summary) **99i:46021**
— (*with* Rodríguez-Mesa, Lourdes) On the Besov-Hankel spaces. **99i:46020**
Blaive, Bruno (*with* Cadilhac, Michel) Expansion of the hydrogen-like wave functions in the inverse principal quantum number, for the discrete and continuous spectra. (English summary) **99h:81028**
Boyd, W. G. C. Recent developments in asymptotics obtained via integral representations of Stieltjes-transform type. (English summary) **99d:34100**
Bustoz, Joaquin (*with* Suslov, Sergei K.) Basic analog of Fourier series on a q-quadratic grid. (English summary) **99e:33020**
Cadilhac, Michel *see* **Blaive, Bruno, 99h:81028**
Choi, Junesang *see* **Rathie, Arjun K., 99d:33006**; **99h:33025** *and* **99h:33026**
De Smedt, Stany On Sloane's sequence 1484. **99b:11133**
Driver, Kathy A. (*with* Temme, Nico M.) Asymptotics and zero distribution of Padé polynomials associated with the exponential function. (English summary) **99b:41008**
Frappier, Clément Representation formulas for entire functions of exponential type and generalized Bernoulli polynomials. (English summary) **99i:30045**
— *see also* **Ben Ghanem, Riadh, 99k:41048**
Gittenberger, Bernhard Convergence of branching processes to the local time of a Bessel process. (English summary) **99k:60213**
Glaeske, Hans-Jürgen (*with* Kilbas, A. A.) Bessel-type integral transforms on $\mathscr{L}_{\nu,\gamma}$-spaces. (English summary) **99m:44006**
Glasser, M. Lawrence (*with* Al-Jarrah, Ali A.) Some Sonine-Gegenbauer integrals. (English summary) **99k:33012**
Grapsa, T. N. *see* **Vrahatis, M. N.; et al., 99d:65064**
Gu, Ben Yuan *see* **Zhang, Yan[6]; et al., 99j:44013**
Gusarevich, L. D. *see* **Yakubovich, S. B., 99k:44011**
Hasan, Husna *see* **Rakhimov, I. U., 99m:60135**
Ivić, Aleksandar On some integrals involving certain number-theoretic error terms. (English summary) **99g:11116**
Jerez Diaz, C. *see* **Betancor, Jorge J., 99i:44004**
Jódar, Lucas (*with* Sastre, Jorge) On Laguerre matrix polynomials. (English summary) **99h:33040**
Khriptun, M. D. Group-theoretic relationships between a generalization of Bessel functions and other special functions. (Russian) (*see* **99a:00019**)
Kilbas, A. A. *see* **Glaeske, Hans-Jürgen, 99m:44006**
Kipriyanov, I. A. (*with* Lyakhov, L. N.) Multipliers of the mixed Fourier-Bessel transform. (Russian) **99b:44007**
Kowalenko, Victor Employing transform orthogonality in the determination of integral identities involving arbitrary functions. (English summary) **99g:44003**
Liflyand, E. R. Fourier transforms of radial functions. (English summary) **99b:42016**
López García, José Luis (*with* Sesma, Javier) The Whittaker function $M_{\kappa,\mu}$ as a function of κ. (English summary) **99m:33004**
Lu, Dong Hui (*with* Zhuang, Tian Ge) Construction and properties of wavelet bases expressed in terms of Bessel functions. (Chinese. English and Chinese summaries)
Lyakhov, L. N. *see* **Kipriyanov, I. A., 99b:44007**
Merkes, E. P. (*with* Salmassi, Mohammad) On univalence of certain infinite products. (English summary) **99b:30023**
Mu, Le Hua The rate of convergence for conjugate Neumann-Bessel series. (English and Chinese summaries) **99b:42048**
— (*with* Al-oushoush, Nizar) The equiconvergence theorem for Bessel series on the unit circle. (Chinese. English and Chinese summaries) **99i:30057**
Pakes, Anthony G. A limit theorem for the maxima of the para-critical simple branching process. (English summary) **99k:60215**
Ragos, O. *see* **Vrahatis, M. N.; et al., 99d:65064**
Rakhimov, I. U. (*with* Hasan, Husna) Limit theorems for exceedances of sequence of branching processes. (English summary) **99m:60135**
Rathie, Arjun K. (*with* Choi, Junesang) A note on generalizations of Preece's identity and other contiguous results. (English summary) **99d:33006**
— (*with* Choi, Junesang) A note on an identity due to Preece. (English summary) **99h:33025**
— (*with* Choi, Junesang) Some more results contiguous to a Bailey's formula. (English summary) **99h:33026**
Rodríguez-Mesa, Lourdes *see* **Betancor, Jorge J., 99i:46020** *and* **99i:46021**
Rothstein, Mitchell Explicit formulas for the Airy and Bessel bispectral involutions in terms of Calogero-Moser pairs. **99f:58104**
Salmassi, Mohammad *see* **Merkes, E. P., 99b:30023**
Sastre, Jorge *see* **Jódar, Lucas, 99h:33040**
Schnell, Wolfgang A non-local wave model for particles and fields. (English summary) **99e:81035**
Segura, Javier A global Newton method for the zeros of cylinder functions. (English summary) **99j:65092**
Sesma, Javier *see* **Abad, Julio, 99j:33007** *and* **López García, José Luis, 99m:33004**
Suslov, Sergei K. *see* **Bustoz, Joaquin, 99e:33020**
Temme, Nico M. *see* **Driver, Kathy A., 99b:41008**
Volchkov, V. V. Uniqueness theorems for some classes of functions with zero spherical means. (Russian. Russian summary) **99d:42072**
Vrahatis, M. N. (*with* Grapsa, T. N.; Ragos, O.; Zafiropoulos, F. A.) On the localization and computation of zeros of Bessel functions. (English summary) **99d:65064**
Yakubovich, S. B. (*with* Gusarevich, L. D.) On the non-convolution transformation with the Macdonald type kernel function. (English summary) **99k:44011**
Yang, Guo-Zhen *see* **Zhang, Yan[6]; et al., 99j:44013**
Yürekli, Osman New identities involving the Laplace and the $\mathscr{L}_2$-transforms and their applications. (English summary) **99j:44003**
Zafiropoulos, F. A. *see* **Vrahatis, M. N.; et al., 99d:65064**
Zhang, Jun[2] Symbolic and numerical computation on Bessel functions of complex

argument and large magnitude. (English summary) **99d:65065**
Zhang, Yan[6] (*with* Gu, Ben Yuan; Yang, Guo-Zhen) Generation of self-fractional Hankel functions. (English summary) **99j:44013**
Zhuang, Tian Ge *see* **Lu, Dong Hui**

33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$

Abad, Julio (*with* Sesma, Javier) Buchholz polynomials: a family of polynomials relating solutions of confluent hypergeometric and Bessel equations. (English summary) **99j:33007**
Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 99j:33008**
Al-Khayat, Isa A. (*with* Bajpai, S. D.) Some hypergeometric solutions of a partial differential equation related to quantum mechanics, heat conduction and other applied sciences. (English summary) **99f:33003**
Bajpai, S. D. *see* **Al-Khayat, Isa A., 99f:33003**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) Ramanujan's ${}_1\psi_1$ summation and an interesting generalization of an identity of Jacobi. (English summary) **99j:33008**
Colavecchia, F. D. (*with* Gasaneo, G.; Garibotti, C. R.) Hypergeometric integrals arising in atomic collisions physics. (English summary) **99c:33008**
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— (*with* Sesma, Javier) The Whittaker function $M_{\kappa,\mu}$ as a function of κ. (English summary) **99m:33004**
Mathai, A. M. (*with* Pederzoli, Giorgio) A Whittaker function of matrix argument. (English summary) **99c:33009**
Muldoon, Martin E. (*with* Raza, Asad) Convolution formulae for functions of Rayleigh type. (English summary) **99k:33008**
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Santra, K. C. (*with* Das, A.) Inhomogeneous confluent hypergeometric equation and its application in an electromechanical problem. (English summary) **99g:33009**
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Betancor, Jorge J. (*with* Jerez Diaz, C.) New inversion formulas for the Hankel transformations. (English summary) **99i:44004**
Chiccoli, C. (*with* Lorenzutta, S.; Maino, G.) On the evaluation of generalized Laguerre functions. (English and Italian summaries) **99k:33023**
Choi, Junesang *see* **Rathie, Arjun K., 99h:33026**
Compoint, E. E-fonctions hypergéométriques et groupes de Galois orthogonaux. (French summary) [Hypergeometric E-functions and orthogonal Galois groups] **99d:12003**
Dahlquist, Germund *see* **Barnard, Roger W.; et al., 99g:42030**
Exton, Harold Summation formulae involving the Laguerre polynomial. (English summary) **99j:33011**
Gittenberger, Bernhard Convergence of branching processes to the local time of a Bessel process. (English summary) **99k:60213**
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Ishkhanyan, A. M. The integrability of the two-state problem in terms of confluent hypergeometric functions. (English summary) **99a:81025**
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Kanas, Stanisława (*with* Stankiewicz, Jan) Univalence of confluent hypergeometric functions. (English summary) **99m:30033**
Khan, Mumtaz Ahmad (*with* Shukla, Ajay Kumar) On Laguerre polynomials of several variables. (English summary) **99h:33013**
— (*with* Ahmad, Khursheed) On a generalization of Bessel polynomials suggested by the polynomials $L_n^{\alpha,\beta}(x)$ of Prabhakar and Rekha. (English summary) **99m:33006**
Kimura, Hironobu On rational de Rham cohomology associated with the generalized Airy function. **99c:32030**
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Lu, Yongyan On the confluent hypergeometric functions in 2 variables. **99e:33017**
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Norfolk, Timothy S. On the zeros of the partial sums to ${}_1F_1(1;b;z)$. (English summary) **99e:30003**
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Ponnusamy, S. Role of special functions in function theory. (English summary) **99i:33002**
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Srivastava, Hari M. (*with* Vasil′ev, Yu. V.; Yakubovich, S. B.) A class of index transforms with Whittaker's function as the kernel. **99k:44013**
Stankiewicz, Jan *see* **Kanas, Stanisława, 99m:30033**
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33C20 Generalized hypergeometric series, ${}_pF_q$

Agrawal, B. M. *see* **Gupta, S. C., 99c:33011**
Al-Jarrah, Ali A. *see* **Glasser, M. Lawrence, 99k:33012**
Anderson, G. D. (*with* Qiu, Songliang; Vuorinen, Matti K.) Precise estimates for differences of the Gaussian hypergeometric function. (English summary) **99k:33010**
Bhandari, Anjana *see* **Kumbhat, R. K., 99h:33023**
Chhajer, G. C. *see* **Joshi, Mukesh M.; et al.**
Choi, Junesang *see* **Rathie, Arjun K., 99d:33006**; **99g:33014**; **99h:33025** *and* **99h:33026**
Delves, R. T. *see* **Joyce, G. S.; et al., 99g:33011**
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— New hypergeometric identities arising from Gauss's second summation theorem. (English summary) **99c:33010**
— New hypergeometric transformations. (English summary) **99g:33010**
Galué, Leda (*with* Kalla, Shyam L.) Some recurrence relations for the generalized hypergeometric functions of the Gauss type. (English summary) **99k:33011**
Glasser, M. Lawrence (*with* Al-Jarrah, Ali A.) Some Sonine-Gegenbauer integrals. (English summary) **99k:33012**
Gupta, S. C. (*with* Agrawal, B. M.) Transformations of hypergeometric series. I. **99c:33011**
Joshi, Mukesh M. (*with* Nagar, Vishakha; Chhajer, G. C.; Rathie, Arjun K.) On Ramanujan's summations. (English summary)
— *see also* **Suri, Komal; et al., 99h:33027**
Joyce, G. S. (*with* Delves, R. T.; Zucker, I. J.) Exact evaluation of the Baxter-Bazhanov Green function. (English summary) **99g:33011**
Kalla, Shyam L. *see* **Galué, Leda, 99k:33011**
Karlsson, Per W. Some formulas by W. N. Bailey, revisited. (English summary) **99h:33021**
Kim, Yong Sup (*with* Lee, Chang Hyun) Some summation formulas for the series ${}_3F_2(1)$. (English summary) **99h:33022**
Kiryakova, Virginia S. All the special functions are fractional differintegrals of elementary functions. (English summary) **99d:33004**
Kumbhat, R. K. (*with* Bhandari, Anjana) Some special functions of matrix arguments. (English summary) **99h:33023**
Ladha, R. K. *see* **Raina, Ravinder Krishna, 99k:33014**
Lee, Chang Hyun *see* **Kim, Yong Sup, 99h:33022**
Nagar, Vishakha (*with* Rathie, Arjun K.) Some summation formulas for the series ${}_4F_3$. (English summary) **99g:33012**
— *see also* **Joshi, Mukesh M.; et al.**
Pathak, M. P. Certain fractional operators and quasi-hypergeometric functions. **99k:33013**
— (*with* Singh, V. N.) Generalized quasi-hypergeometric functions. (English summary) **99h:33024**
Ponnusamy, S. (*with* Sabapathy, S.) Geometric properties of generalized hypergeometric functions. (English summary) **99d:33005**
Prieto, Ana Isolina (*with* Srivastava, Hari M.) A generalization of the function $S_m^{(p,q)}$ associated with some families of radiation integrals. (Spanish. English and Spanish summaries) **99g:33013**
Qiu, Songliang *see* **Anderson, G. D.; et al., 99k:33010**
Raina, Ravinder Krishna Reduction formulas associated with series involving arbitrary coefficients. (English summary) **99b:33007**
— (*with* Ladha, R. K.) A note on certain classes of transformation formulas involving several variables. (English summary) **99k:33014**
Rathie, Arjun K. (*with* Choi, Junesang) A short proof of Bailey's formula. (English summary) **99g:33014**
— A new generalization of generalized hypergeometric functions. (English summary) **99f:33006**
— (*with* Choi, Junesang) A note on generalizations of Preece's identity and other contiguous results. (English summary) **99d:33006**
— (*with* Choi, Junesang) A note on an identity due to Preece. (English summary) **99h:33025**
— (*with* Choi, Junesang) Some more results contiguous to a Bailey's formula. (English summary) **99h:33026**
— *see also* **Nagar, Vishakha, 99g:33012** *and* **Joshi, Mukesh M.; et al.**
Rathie, N. R. *see* **Suri, Komal; et al., 99h:33027** *and* **99h:33028**
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Saigo, Megumi (*with* Saxena, Ram Kishore) Expansions of ${}_4F_3$ when the upper parameters differ by integers. (English summary) **99j:33009**
Sanchis-Lozano, Miguel Angel Simple connections between generalized hypergeometric series and dilogarithms. (English summary) **99d:33007**
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Stanton, Dennis W. A hypergeometric hierarchy for the Andrews evaluations. (English summary) **99k:33015**
Suri, Komal (*with* Joshi, Mukesh M.; Rathie, N. R.) Some finite series of $\overline{H}$-function. (English summary) **99h:33027**
— (*with* Rathie, N. R.) A summation formula for $\overline{H}$-function. (English summary) **99h:33028**
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Andrews, George E. (*with* Stanton, Dennis W.) Determinants in plane partition enumeration. (English summary) **99f:05002**
Askey, Richard Vietoris's inequalities and hypergeometric series. (English summary) **99m:26023**
Becker, Katrin (*with* Becker, Melanie) Complete solution for M(atrix) theory at two loops. (English summary) **99i:81168**
Becker, Melanie *see* **Becker, Katrin, 99i:81168**
Berens, Hubert (*with* zu Castell, Wolfgang) Hypergeometric functions as a tool for summability of the Fourier integral. (English summary) **99m:42016**
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zu Castell, Wolfgang *see* **Berens, Hubert, 99m:42016**
Cho, Nak Eun *see* **Owa, Shigeyoshi; et al., 99h:30014**
Chu, Wenchang Basic almost-poised hypergeometric series. (English summary) **99b:33035**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Classification of hypergeometric identities for π and other logarithms of algebraic numbers. (English summary) **99g:11152**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 99g:11152**
Dąbrowski, Andrzej Bogdan On some combinatorial result in the theory of automorphic pseudo-differential operators. (English summary) **99b:11044**
Ekhad, Shalosh B. (*with* Zeilberger, Doron) Curing the Andrews syndrome. (English summary) **99f:05003**
El-Gabali, Magdi A. (*with* Kalla, Shyam L.) Simple algorithms for approximations of generalized elliptic-type integrals. (English summary) (*see* **99i:00031**)
Fakhri, H. *see* **Jafarizadeh, M. A., 99d:34018**
Galué, Leda (*with* Al Zamel, A.; Kalla, Shyam L.) Evaluation of fractional integrals involving hypergeometric functions. (English summary) **99k:44001**
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Krattenthaler, Christian An alternative evaluation of the Andrews-Burge determinant. (English summary) **99g:05011**
Lahiri, Maya (*with* Satyanarayana, Bavanari) Discrete and pseudo orthogonality for a class of generalized hypergeometric functions. (English summary) **99e:33010**
Masuda, Takahiro (*with* Suzuki, Hisao) Periods and prepotential of $N = 2$ SU(2) supersymmetric Yang-Mills theory with massive hypermultiplets. (English summary) **99b:81245**
Owa, Shigeyoshi (*with* Kim, J. A.; Cho, Nak Eun) Some properties for convolutions of generalized hypergeometric functions. (English summary) **99h:30014**
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33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)

Abbas, Salman Hassan *see* **Bajpai, S. D., 99e:33004**
Abdelkarim, F. (*with* Maroni, Pascal) The D_ω-classical orthogonal polynomials. (English summary) **99b:33009**
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Alfaro, Manuel (*with* Cantero, Maria José; Moral, Leandro) Semiorthogonal functions and orthogonal polynomials on the unit circle. (English summary) **99k:33016**
Álvarez de Morales, María (*with* Pérez, Teresa E.; Piñar, Miguel A.; Ronveaux, André) Orthogonal polynomials associated with a nondiagonal Sobolev inner product with polynomial coefficients. (English summary) **99k:33017**
— (*with* Pérez, Teresa E.; Piñar, Miguel A.) Sobolev orthogonality for the Gegenbauer polynomials $\{C_n^{(-N+1/2)}\}_{n\geq 0}$. (English summary) **99k:33019**
Álvarez-Nodarse, Renato (*with* Marcellán, Francisco) A generalization of the class Laguerre polynomials: asymptotic properties and zeros. (English summary) **99b:33010**
— (*with* Marcellán, Francisco; Petronilho, J.) On some polynomial mappings for measures. Applications. (English summary) **99a:33003**
— (*with* Marcellán, Francisco) Limit relations between generalized orthogonal polynomials. (English summary) **99g:33015**
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de Andrade, Eliana X. L. (*with* Dimitrov, Dimitar K.; Sri Ranga, Alagacone) Characterization of generalized Bessel polynomials in terms of polynomial inequalities. (English summary) **99b:33011**
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— (*with* Godoy, E.; Ronveaux, André; Zarzo, A.) Corrigendum: "Minimal recurrence relations for connection coefficients between classical orthogonal polynomials: discrete case". (English summary) **99a:33004b**
— *see also* **Godoy, E.; et al., 99g:33023**; **99g:33024**; **Ronveaux, André; et al., 99g:33032**; **99h:33048**; **99i:33011** *and* **99k:33033**
Arvesú, J. (*with* Álvarez-Nodarse, Renato; Marcellán, Francisco; Pan, K. C.) Jacobi-Sobolev-type orthogonal polynomials: second-order differential equation and zeros. (English summary) **99h:33029**
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Bajracharya, Shanti Generating relations involving Laguerre polynomials and confluents hypergeometric functions.
— Bilateral generating relating for Palas polynomials. **99k:33020**
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— Differential operators having Laguerre type and Sobolev type Laguerre polynomials as eigenfunctions: a survey. (English summary) **99i:33005**
— Some new results for Charlier and Meixner polynomials. (English summary) **99g:33017**
— On the sum of the coefficients of certain linear differential operators. (English summary) **99h:33032**
— Differential and difference operators having orthogonal polynomials with two linear perturbations as eigenfunctions. (English summary) **99k:33021**
Beghdadi, Driss (*with* Maroni, Pascal) On the inverse problem of the product of a semi-classical form by a polynomial. (English summary) **99e:33005**
Belingeri, Carlo (*with* Ricci, Paolo Emilio) A generalization of the discrete Fourier transform. (English summary) **99b:33012**
— (*with* Ricci, Paolo Emilio) General sets of relativistic Jacobi polynomials. (English summary) **99h:33039**
Belmehdi, S. (*with* Lewanowicz, S.; Ronveaux, André) Linearization of the product of orthogonal polynomials of a discrete variable. (English summary) **99a:33005**
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Branquinho, A. (*with* Foulquié Moreno, Ana; Marcellán, Francisco) On inverse problems for orthogonal polynomials satisfying a differential equation. (English summary) **99k:33022**
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Chaturvedi, S. Jack polynomials, generalized binomial coefficients and polynomial solutions of the generalized Laplace's equation. (English summary) **99g:33020**
Chen, Wen Gu (*with* Wang, Kun Yang[1]) Some positive Cotes numbers for Jacobi abscissas. **99f:33007**
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Asymptotics of extreme zeros of the Meixner-Pollaczek polynomials. (English summary) **99c:33014**
— (*with* Ismail, Mourad E. H.; Van Assche, Walter) Tau-function constructions of the recurrence coefficients of orthogonal polynomials. (English summary) **99b:33013**
Chiccoli, C. (*with* Lorenzutta, S.; Maino, G.) On the evaluation of generalized Laguerre functions. (English and Italian summaries) **99k:33023**
Chongdar, A. K. (*with* Pittaluga, Giovanna; Sacripante, Laura) On generating functions of modified Laguerre polynomials by Lie algebraic method. (English summary) **99c:33015**
— (*with* Pittaluga, Giovanna; Sacripante, Laura) Weisner's methodic survey of modified Laguerre polynomials. (English summary) **99h:33033**
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Cuccoli, Mauro (*with* Ricci, Paolo Emilio) A characterization of the Chebyshev and Fibonacci polynomials. (English summary) **99f:33008**
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Daboul, Jamil (*with* Rathie, P. N.) Generalized parity and r-polynomials. (English summary) **99b:33014**
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Dattoli, G. (*with* Torre, Amalia; Carpanese, M.) Operational rules and arbitrary order Hermite generating functions. (English summary) **99k:33025**
Defez, Emilio (*with* Jódar, Lucas) Some applications of the Hermite matrix polynomials series expansions. (English summary) **99j:33010**
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Dehesa, Jesús S. (*with* Van Assche, Walter; Yáñez, Rafael J.) Information entropy of classical orthogonal polynomials and their application to the harmonic oscillator and Coulomb potentials. (English summary) **99b:33015**
— *see also* **Sánchez-Ruiz, Jorge, 99i:33012**
Dimitrov, Dimitar K. Higher order Turán inequalities. (English summary) **99g:33021**

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Dube, P. P. (*with* Kar, Sujit Kumar) On some generating functions of Gegenbauer polynomials from the view point of local transformation of groups. (English summary) **99g:33022**

Dubeau, François (*with* Savoie, Jean) More on the roots of Euler-Frobenius polynomials. (English and French summaries) **99i:33006**

Ermolayeva, O. (*with* Spiridonov, Vyacheslav P.; Vinet, Luc; Zhedanov, A. S.) Self-similarity and orthogonal polynomials. (English summary) **99k:33026**

Everitt, W. N. (*with* Kwon, Kil Hyun; Littlejohn, Lance L.; Wellman, R.) On the spectral analysis of the Laguerre polynomials $\{L_n^{-k}(x)\}$ for positive integers k. (English summary) **99b:33016**

Exton, Harold Summation formulae involving the Laguerre polynomial. (English summary) **99j:33011**

Faldey, Jutta On a gap theorem of Fabry's type for classical orthogonal series. (English summary) **99h:33035**

Fernández, Francisco M. Generating functions for Hermite polynomials of arbitrary order. (English summary) **99h:33036**

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Freeman, John M. A strategy for determining polynomial orthogonality. **99f:33009**

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Gerard, Brian (*with* Roberts, Lawrence) Graphical discovery of a new identity for Jacobi polynomials. **99c:33016**

Germano, Bruna (*with* Noschese, Silvia; Ricci, Paolo Emilio) General sets of relativistic Laguerre polynomials. (English summary) **99h:33038**

Glaeske, Hans-Jürgen On Zernicke polynomials. (English summary) **99i:33007**

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33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)

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— (*with* Gupta, Neeti) Some finite integrals involving a product of general polynomials, Fox's H-function with the multivariable H-function. (English summary)
— (*with* Patni, Rinku) Integrals and Fourier series for the product of general polynomials, Fox's H-function and the multivariable H-function. (English summary)
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— (*with* Chandel, Jyotsna) n series equations involving generalised Bateman K-functions. (English summary) **99h:33054**
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Laddha, R. K. On the multidimensional generalized Weyl fractional calculus and the H-function transform. (English summary)
Luque, Rafael (*with* Galué, Leda) Evaluation of fractional integrals involving Fox's H-function. (Spanish. English and Spanish summaries) **99g:33039**
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Salim, Tariq O. Some integral formulas for the product of generalized polynomials sets and the multivariable H-function with applications. (English summary)
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— *see also* **Goyal, S. P., 99e:33015**
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Chaurasia, V. B. L. (*with* Sharma, Rajendra Pal) Two-dimensional exponential Bessel expansion of a general class of polynomials and the multivariable H-function. (English summary) **99g:33008**
— (*with* Patni, Rinku) Free oscillations of water in a circular lake and the H-function of several complex variables with a general class of polynomials. (English summary)
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— *see also* **Saigo, Megumi, 99g:26016**
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Mathai, A. M. ★ Jacobians of matrix transformations and functions of matrix argument. **99j:26015**
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Niizeki, Syôzô (*with* Sasaki, Masato; Srivastava, Hari M.) Further remarks on the integral of $\exp(-x^2)$ over **R**. (English summary) **99d:33001**
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— (*with* Ladha, R. K.) A note on certain classes of transformation formulas involving several variables. (English summary) **99k:33014**
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Saigo, Megumi (*with* Kilbas, A. A.) Compositions of generalized fractional integration operators with the Fox H-function and a differential operator in axisymmetric potential theory. (Russian. English and Russian summaries) **99g:26016**
— *see also* **Saxena, Ram Kishore, 99d:26010** *and* **Kilbas, A. A., 99d:44001**
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— (*with* Saigo, Megumi) Fractional integral formula for the H-function. II. (English summary) **99d:26010**
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— Double integrals involving generalized H-function of two variables. (English summary) **99g:33043**
— Fractional integrals of the generalized Kampé de Fériet functions and the H-function of two variables. (English summary) **99g:33047**
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33C65 Appell, Horn and Lauricella functions

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— Some operational techniques in the theory of special functions. (English summary) **99k:33035**
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33C70 Other hypergeometric functions and integrals in several variables

Agrawal, B. D. (*with* Sarathi, M. R. M.) Some generating functions for discrete double hypergeometric functions. (English summary) **99c:33023**
Al-Khayat, Isa A. Fourier Bessel expansion for the Fox's H-function of several variables. (English summary)
Bhati, S. S. (*with* Joshi, Sunil) Kepteyn [Kapteyn] series for generalized Lauricella's triple hypergeometric functions. (English summary)
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Srinivasa Rao, K. (*with* Van der Jeugt, Joris) Transformations of single and double hypergeometric series from the triple sum series for the 9-j coefficient. (English summary) **99g:33044**
— *see also* **Van der Jeugt, Joris; et al., (99h:33002)**
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— *see also* **Srinivasa Rao, K., 99g:33044**
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Colavecchia, F. D. (*with* Gasaneo, G.; Garibotti, C. R.) Hypergeometric integrals arising in atomic collisions physics. (English summary) **99c:33008**
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33C75 Elliptic integrals as hypergeometric functions

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33C80 Connections with groups, algebras, root systems and related topics

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Van der Jeugt, Joris (*with* Jagannathan, Ramaswamy) Realizations of su(1, 1) and $U_q(\mathrm{su}(1,1))$ and generating functions for orthogonal polynomials. (English summary) **99h:33057**

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Betancor, Jorge J. (*with* Jerez Diaz, C.) Weighted norm inequalities for the $\mathscr{K}$-transformation. (English summary) **99c:44004**

Cariñena, José F. (*with* Perelomov, A. M.) A few remarks on integral representation for zonal spherical functions on the symmetric space $\mathrm{SU}(N)/\mathrm{SO}(N, \mathbf{R})$. (English summary) **99a:33008**

Cartier, Pierre Théorie des groupes, fonctions théta et modules des variétés abéliennes. [Group theory, theta functions and moduli of abelian varieties] (*see* **99f:00042**)

Cherednik, Ivan Inverse Harish-Chandra transform and difference operators. **99d:22018**

Chongdar, A. K. (*with* Pittaluga, Giovanna; Sacripante, Laura) On generating functions of modified Laguerre polynomials by Lie algebraic method. (English summary) **99c:33015**

Dattoli, G. (*with* Ottaviani, P. L.; Torre, Amalia; Vázquez, Luis) Evolution operator equations: integration with algebraic and finite-difference methods. Applications to physical problems in classical and quantum mechanics and quantum field theory. **99a:81006**

Denef, Jan (*with* Loeser, François) Character sums associated to finite Coxeter groups. (English summary) **99b:11138**

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— (*with* Remmel, Jeffrey B.) Plethystic formulas and positivity for q, t-Kostka coefficients. (English summary) **99j:05189d**

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Hayata, Takahiro Differential equations for principal series Whittaker functions on SU(2, 2). (English summary) **99e:22030**

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Kato, Yusuke (*with* Yamamoto, Takashi) Jack polynomials with prescribed symmetry and hole propagator of spin Calogero-Sutherland model. (English summary) **99j:81210**

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Khare, Avinash (*with* Mandal, Bhabani Prasad) Anti-isospectral transformations, orthogonal polynomials, and quasi-exactly solvable problems. (English summary) **99h:81033**

Kirillov, Anatol N. (*with* Noumi, Masatoshi) Affine Hecke algebras and raising operators for Macdonald polynomials. **99j:05189a**

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Perelomov, A. M. (*with* Ragoucy, E.; Zaugg, Ph.) Explicit solution of the quantum three-body Calogero-Sutherland model. (English summary) **99f:81233**

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Pérez, Teresa E. (*with* Piñar, Miguel A.) Sobolev orthogonality and properties of the generalized Laguerre polynomials. (English summary) **99k:33018**

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— The binomial formula for nonsymmetric Macdonald polynomials. **99k:33041**

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Trimèche, Khélifa ★ Generalized wavelets and hypergroups. (English summary) **99h:43014**

Van der Jeugt, Joris Orthogonal polynomial identities from tensor product decompositions. **99i:33013**

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33C90 Applications

Bao, Cheng Guang *see* **Ruan, W. Y., 99b:33032**

Ruan, W. Y. (*with* Bao, Cheng Guang) Transformation bracket for 2D hyperspherical harmonics and its applications to few-anyon problems. (English summary) **99b:33032**

Shrivastava, H. S. P. Fractional integrals of the generalized Kampé de Fériet functions and the H-function of two variables. (English summary) **99g:33047**

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Beghdadi, Driss (*with* Maroni, Pascal) On the inverse problem of the product of a semi-classical form by a polynomial. (English summary) **99e:33005**

Chen, Ming-Po (*with* Srivastava, Hari M.) Some families of series representations for the Riemann $\zeta(3)$. (English summary) **99b:11095**

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Cvijović, Djurdje (*with* Klinowski, Jacek) An application for the Chebyshev polynomials. (English summary) **99k:33024**

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Khare, Avinash (*with* Mandal, Bhabani Prasad) Do quasi-exactly solvable systems always correspond to orthogonal polynomials? (English summary) **99c:81026**

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Waalkens, Holger (*with* Wiersig, Jan; Dullin, Holger R.) Elliptic quantum billiard. (English summary) **99b:81063**

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Zabrodin, A. V. *see* **Krichever, Igor Moiseevich; et al., 99e:58103**

Zervos, M. *see* **Davis, Mark H. A., 99i:49028**

33C99 None of the above, but in this section

Amdeberhan, Tewodros (*with* Zeilberger, Doron) Hypergeometric series acceleration via the WZ method. (English summary) **99e:33018**

Mohammad, Ch. Wali Bilinear and bilateral generating functions of generalized polynomials. (English summary) **99c:33026**

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33Dxx Basic hypergeometric functions

Items with secondary classifications in 33Dxx

Koornwinder, Tom H. Special functions and q-commuting variables. (English summary) **99e:33024**

33D05 q-gamma functions, q-beta functions and integrals

Elezović, N. (*with* Giordano, Carla; Pečarić, Josip) A geometric mean inequality and some monotonicity results for the q-gamma function. (English summary) **99c:33027**
Giordano, Carla *see* **Elezović, N.; et al., 99c:33027**
Mimachi, Katsuhisa The little q-Jacobi polynomial associated with a q-Selberg integral. **99j:33019**
Pečarić, Josip *see* **Elezović, N.; et al., 99c:33027**
Suslov, Sergei K. Multiparameter Ramanujan-type q-beta integrals. (English summary) **99j:33020**

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Baker, T. H. (*with* Forrester, P. J.) Generalizations of the q-Morris constant term identity. (English summary) **99e:05013**
Doikou, Anastasia (*with* Mezincescu, Luca; Nepomechie, Rafael I.) Boundary S-matrix for the XXZ chain. (English summary) **99h:82012**
Forrester, P. J. *see* **Baker, T. H., 99e:05013**
Ito, Masahiko On a theta product formula for Jackson integrals associated with root systems of rank two. **99e:33023**
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Nishizawa, Michitomo *see* **Ueno, Kimio, 99b:33003**
Ueno, Kimio (*with* Nishizawa, Michitomo) Multiple gamma functions and multiple q-gamma functions. (English summary) **99b:33003**

33D10 Basic theta functions

Agarwal, Ratan Prakash Ramanujan's mock theta functions—problems and prospects. (*see* **99h:33002**)
McIntosh, Richard J. Asymptotic transformations of q-series. (English summary) **99k:33049**
Son, Seung Hwan Some theta function identities related to the Rogers-Ramanujan continued fraction. (English summary) **99a:33010**
— Cubic identities of theta functions. (English summary) **99i:33018**

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Alladi, Krishnaswami On a partition theorem of Göllnitz and quartic transformations. (English summary) **99d:11112**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's class invariants with applications to the values of q-continued fractions and theta functions. (English summary) **99c:11017**
Chan, Heng Huat (*with* Ong, Yao Lin) On Eisenstein series and $\sum_{m,n=-\infty}^{\infty} q^{m^2+mn+2n^2}$. (English summary) **99i:11029**
— *see also* **Berndt, Bruce C.; et al., 99c:11017**
(Gordon, Basil) *see* **Alladi, Krishnaswami, 99d:11112**
Ito, Masahiko A theta product formula for Jackson integrals associated with root systems. **99b:33043**
Ong, Yao Lin *see* **Chan, Heng Huat, 99i:11029**
Shen, Li-Chien On a class of q-series related to quadratic forms. (English summary) **99h:11091**
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33D15 Basic hypergeometric functions in one variable

Adiga, Chandrashekar (*with* Somashekara, D. D.) On some Rogers-Ramanujan type continued fraction identities. (English summary) **99j:33021**
Agarwal, Rama R. On the properties of a class of q-functions satisfying the q-differential-difference equation $D_{q,z}F(z,\alpha) = F(z,\alpha+1)$. (English summary) **99b:33033**
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Bhatnagar, Gaurav A multivariable view of one-variable q-series. **99i:33020**
Bustoz, Joaquin (*with* Suslov, Sergei K.) Basic analog of Fourier series on a q-quadratic grid. (English summary) **99e:33020**
Dattoli, G. (*with* Torre, Amalia) q-Bessel functions: the point of view of the generating function method. (English and Italian summaries) **99m:33009**
Denis, Remy Y. On certain q-series and continued fractions of Ramanujan. (English summary) **99i:33021**
Khan, Mumtaz Ahmad Expansions of discrete hypergeometric functions. II. (English summary) **99i:33022**
Koelink, H. Tjerk Some basic Lommel polynomials. (English summary) **99m:33010**
Lohe, M. A. Quantum group derivation of special function identities. (English summary) **99i:33023**
Lubinsky, D. S. On q-exponential functions for $|q| = 1$. (English summary) **99d:33022**
Ol'shanetskiĭ, M. A. (*with* Rogov, V.-B. K.) q-integral representations of modified Bessel q-functions and Macdonald q-functions. (Russian. Russian summary) **99b:33034**
Rahman, Mizan Some cubic summation and transformation formulas. (English summary) **99d:33023**
Rogov, V.-B. K. *see* **Ol'shanetskiĭ, M. A., 99b:33034**
Somashekara, D. D. *see* **Adiga, Chandrashekar, 99j:33021**
Suslov, Sergei K. *see* **Bustoz, Joaquin, 99e:33020**
Torre, Amalia *see* **Dattoli, G., 99m:33009**

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Amdeberhan, Tewodros (*with* Zeilberger, Doron) q-Apéry irrationality proofs by q-WZ pairs. (English summary) **99d:11074**
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— The well-poised thread: an organized chronicle of some amazing summations and their implications. (English summary) **99a:11116**
Atakishiev, N. M. Ramanujan-type continuous measures for classical q-polynomials. (English and Russian summaries) **99d:33026**
— Continuous solutions of difference equations and their orthogonality relations. (English summary) **99a:39005**
Chu, Wenchang Basic almost-poised hypergeometric series. (English summary) **99b:33035**
Gordon, Basil (*with* McIntosh, Richard J.) Algebraic dilogarithm identities. (English summary) **99b:11010**
Grünbaum, F. Alberto (*with* Haine, Luc) On a q-analogue of Gauss equation and some q-Riccati equations. (*see* **97k:33001**)
Haine, Luc *see* **Grünbaum, F. Alberto, (97k:33001)**
McIntosh, Richard J. *see* **Gordon, Basil, 99b:11010**
Mimachi, Katsuhisa The little q-Jacobi polynomial associated with a q-Selberg integral. **99j:33019**
Pathak, M. P. (*with* Singh, V. N.) Generalized quasi-hypergeometric functions. (English summary) **99h:33024**
— Certain q-fractional operators and q-quasi-hypergeometric functions. (English summary) **99b:33041**
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Suslov, Sergei K. Multiparameter Ramanujan-type q-beta integrals. (English summary) **99j:33020**
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33D20 Generalized basic hypergeometric series

Chen, William Y. C. (*with* Liu, Zhi Guo) Parameter augmentation for basic hypergeometric series. II. (English summary) **99m:33011**
— (*with* Liu, Zhi Guo) Parameter augmentation for basic hypergeometric series. I. (English summary) **99f:33020**
Chu, Wenchang Basic almost-poised hypergeometric series. (English summary) **99b:33035**
Kaneko, Jyoichi Constant term identities of Forrester-Zeilberger-Cooper. (English summary) **99d:33024**
— A ${}_1\Psi_1$ summation theorem for Macdonald polynomials. (English summary) **99k:33050**
Katriel, Jacob Stirling number identities: interconsistency of q-analogues. (English summary) **99g:33048**
Liu, Zhi Guo *see* **Chen, William Y. C., 99f:33020** *and* **99m:33011**
Milne, Stephen C. Balanced ${}_3\varphi_2$ summation theorems for $\mathrm{U}(n)$ basic hypergeometric series. (English summary) **99d:33025**
Schlosser, Michael Multidimensional matrix inversions and A_r and D_r basic hypergeometric series. (English summary) **99b:33036**
— Multidimensional matrix inversions and multiple basic hypergeometric series associated to root systems. (English summary) **99i:33024**

Items with secondary classifications in 33D20

Alladi, Krishnaswami On a partition theorem of Göllnitz and quartic transformations. (English summary) **99d:11112**
Aomoto, Kazuhiko q-difference de Rham complexes and Čech cohomology (thoughts on basic hypergeometric functions). (Japanese) **99f:32029**
(Gordon, Basil) *see* **Alladi, Krishnaswami, 99d:11112**
Odzijewicz, Anatol Quantum algebras and q-special functions related to coherent states maps of the disc. (English summary) **99b:81094**
Suslov, Sergei K. Multiparameter Ramanujan-type q-beta integrals. (English summary) **99j:33020**
Wei, Hong Zeng (*with* Zhang, Yi Bin) A formula for the number of solutions to a symmetric matrix equation over a finite field of characteristic $\neq 2$ and its q-hypergeometric series representation. (Chinese. English and Chinese summaries) **99i:11115**
Zhang, Yi Bin *see* **Wei, Hong Zeng, 99i:11115**

33D45 Basic orthogonal polynomials and functions in one and several variables

Álvarez-Nodarse, Renato (*with* Buendía, Enrique[1]; Dehesa, Jesús S.) The distribution of zeros of general q-polynomials. (English summary) **99a:33011**
— (*with* Yáñez, Rafael J.; Dehesa, Jesús S.) Modified Clebsch-Gordan-type expansions for products of discrete hypergeometric polynomials. (English summary) **99h:33058**

Atakishiev, N. M. Ramanujan-type continuous measures for classical q-polynomials. (English and Russian summaries) **99d:33026**
— Fourier-Gauss transforms of the Askey-Wilson polynomials. (English summary) **99b:33037**
— *see also* **Atakishieva, M. K., 99a:33012**
Atakishieva, M. K. (*with* Atakishiev, N. M.) Fourier-Gauss transforms of the continuous big q-Hermite polynomials. (English summary) **99a:33012**
Bhatnagar, Gaurav (*with* Milne, Stephen C.) Generalized bibasic hypergeometric series and their $U(n)$ extensions. (English summary) **99b:33038**
Buendía, Enrique[1] *see* **Álvarez-Nodarse, Renato; et al., 99a:33011**
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Asymptotics of the largest zeros of some orthogonal polynomials. (English summary) **99g:33049**
Dehesa, Jesús S. *see* **Álvarez-Nodarse, Renato; et al., 99a:33011** *and* **99h:33058**
van Diejen, J. F. (*with* Stokman, J. V.) Multivariable q-Racah polynomials. (English summary) **99b:33039**
Foupouagnigni, M. (*with* Ronveaux, André; Koepf, Wolfram) Fourth order q-difference equation for the first associated of the q-classical orthogonal polynomials. (English summary) **99j:33022**
Gupta, Dharma P. (*with* Masson, David R.) Contiguous relations, continued fractions and orthogonality. (English summary) **99c:33028**
Ismail, Mourad E. H. (*with* Rahman, Mizan) The q-Laguerre polynomials and related moment problems. (English summary) **99b:33040**
— *see also* **Chen, Yang[1], 99g:33049**
Khan, Mumtaz Ahmad (*with* Najmi, M.) On generalised q-Rice polynomials. (English summary) **99f:33021**
— A study of q-Laguerre polynomials through the $T_{k,q,x}$-operator. (English summary) **99k:33051**
Koepf, Wolfram *see* **Foupouagnigni, M.; et al., 99j:33022**
Koornwinder, Tom H. *see* **Stokman, J. V., 99k:33052**
Liu, Zhi Guo q-Hermite polynomials and a q-beta integral. (English summary) **99a:33013**
— A new proof of the Nassrallah-Rahman integral. (Chinese. English and Chinese summaries) **99j:33023**
Masson, David R. *see* **Gupta, Dharma P., 99c:33028**
Milne, Stephen C. *see* **Bhatnagar, Gaurav, 99b:33038**
Najmi, M. *see* **Khan, Mumtaz Ahmad, 99f:33021**
Rahman, Mizan *see* **Ismail, Mourad E. H., 99b:33040**
Ronveaux, André *see* **Foupouagnigni, M.; et al., 99j:33022**
Singh, Shobh Nath (*with* Singh, U. B.) Generalization of certain summation formulae. **99f:33022**
Singh, U. B. *see* **Singh, Shobh Nath, 99f:33022**
Stokman, J. V. (*with* Koornwinder, Tom H.) On some limit cases of Askey-Wilson polynomials. (English summary) **99k:33052**
— *see also* **van Diejen, J. F., 99b:33039**
Yáñez, Rafael J. *see* **Álvarez-Nodarse, Renato; et al., 99h:33058**

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Askey, Richard A new look at some old trigonometric expansions. (English summary) **99g:26018**
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Some indeterminate moment problems and Freud-like weights. (English summary) **99j:44016**
van Diejen, J. F. Properties of some families of hypergeometric orthogonal polynomials in several variables. (English summary) **99c:33020**
Hikami, Kazuhiro *see* **Komori, Yasushi, 99g:81242**
Ismail, Mourad E. H. *see* **Chen, Yang[1], 99j:44016**
Karachik, V. V. On one set of orthogonal harmonic polynomials. (English summary) **99g:33034**
Khan, Mumtaz Ahmad Complete FORTRAN programs of certain important q-integrals.
Koelink, H. Tjerk Eight lectures on quantum groups and q-special functions. (English summary) **99g:33053**
— Some basic Lommel polynomials. (English summary) **99m:33010**
Komori, Yasushi (*with* Hikami, Kazuhiro) Quantum integrability of the generalized elliptic Ruijsenaars models. (English summary) **99g:81242**
Koornwinder, Tom H. Special functions associated with root systems: a first introduction for non-specialists. (English summary) **99h:33056**
Lapointe, Luc (*with* Vinet, Luc) Rodrigues formulas for the Macdonald polynomials. (English summary) **99e:05128**
Macdonald, I. G. Affine Hecke algebras and orthogonal polynomials. (English summary) **99f:33024**
Mimachi, Katsuhisa The little q-Jacobi polynomial associated with a q-Selberg integral. **99j:33019**
Randrianarivony, Arthur Moments des polynômes orthogonaux unitaires de Sheffer généralisés et spécialisations. (English summary) [Moments of generalized unitary orthogonal Sheffer polynomials and specializations] **99g:05190**
Szwarc, Ryszard Positivity of Turán determinants for orthogonal polynomials. (English summary) **99h:42050**
Vinet, Luc *see* **Lapointe, Luc, 99e:05128**
Witte, N. S. Many-body orthogonal polynomial systems. (English summary) **99k:81352**
Xu, Yuan[1] On orthogonal polynomials in several variables. (English summary) **99a:33009**

33D55 Basic spherical functions, spherical harmonics (continuous and discrete)

Arnol'd, Vladimir Igorevich Topological content of the Maxwell theorem on multipole representation of spherical functions. **99c:33029**

Items with secondary classifications in 33D55

Bott, E. (*with* Methfessel, M.; Krabs, Werner; Schmidt, P. C.) Nonsingular Hankel functions as a new basis for electronic structure calculations. (English summary) **99h:82075**
Krabs, Werner *see* **Bott, E.; et al., 99h:82075**
Liflyand, E. R. On the Lebesgue constants of Cesàro means of spherical harmonic expansions. (English summary) **99h:42052**
Methfessel, M. *see* **Bott, E.; et al., 99h:82075**
Schmidt, P. C. *see* **Bott, E.; et al., 99h:82075**

33D60 Basic hypergeometric integrals and functions defined by them

Aomoto, Kazuhiko (*with* Kato, Yoshifumi) Derivation of q-difference equation from connection matrix for Selberg type Jackson integrals. (English summary) **99e:33021**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko, 99e:33021**
Pathak, M. P. Certain q-fractional operators and q-quasi-hypergeometric functions. (English summary) **99b:33041**
Terasoma, Tomohide Determinants of q-hypergeometric functions and another proof of the Askey conjecture. **99b:33042**

Items with secondary classifications in 33D60

Baker, T. H. (*with* Forrester, P. J.) Generalizations of the q-Morris constant term identity. (English summary) **99e:05013**
Chen, William Y. C. (*with* Liu, Zhi Guo) Parameter augmentation for basic hypergeometric series. I. (English summary) **99f:33020**
Forrester, P. J. *see* **Baker, T. H., 99e:05013**
Ito, Masahiko On a theta product formula for Jackson integrals associated with root systems of rank two. **99e:33023**
Liu, Zhi Guo *see* **Chen, William Y. C., 99f:33020**

33D65 Bibasic functions and multiple bases

Atakishiev, N. M. *see* **Atakishieva, M. K., 99k:33053**
Atakishieva, M. K. (*with* Atakishiev, N. M.) On the Mellin transforms of hypergeometric polynomials. (English summary) **99k:33053**
Jagannathan, Ramaswamy (P, Q)-special functions. (English summary) **99i:33025**
Jain, Vinod Kumar (*with* Verma, Arun[1]) Summation formulae for bibasic and polybasic hypergeometric series. **99h:33059**
Singh, U. B. On a bibasic transformation formula. (English summary) **99d:33027**
Srivastava, Bhaskar Some relations between contiguous bibasic q-Appell functions. **99k:33054**
Verma, Arun[1] *see* **Jain, Vinod Kumar, 99h:33059**

Items with secondary classifications in 33D65

Baker, T. H. (*with* Forrester, P. J.) A q-analogue of the type A Dunkl operator and integral kernel. **99e:33022**
Forrester, P. J. *see* **Baker, T. H., 99e:33022**
Schlosser, Michael Multidimensional matrix inversions and A_r and D_r basic hypergeometric series. (English summary) **99b:33036**

33D70 Other basic hypergeometric functions and integrals in several variables

Kadell, Kevin W. J. A simple proof of an Aomoto-type extension of Gustafson's Askey-Wilson Selberg q-integral. (English summary) **99k:33055**
Rubin, Richard L. A q^2-analogue operator for q^2-analogue Fourier analysis. **99g:33050**

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Aomoto, Kazuhiko q-difference de Rham complexes and Čech cohomology (thoughts on basic hypergeometric functions). (Japanese) **99f:32029**
Bhatnagar, Gaurav A multivariable view of one-variable q-series. **99i:33020**
Cooper, Shaun The Macdonald identities for G_2 and some extensions. (English summary) **99k:33056**
Pitre, S. N. *see* **Van der Jeugt, Joris; et al., (99h:33002)**
Srinivasa Rao, K. *see* **Van der Jeugt, Joris; et al., (99h:33002)**
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33D80 Connections with groups, algebras, and related topics

Baker, T. H. (*with* Forrester, P. J.) A q-analogue of the type A Dunkl operator and integral kernel. **99e:33022**
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— Multiplying Macdonald identities. (English summary) **99i:33027**
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— A theta product formula for Jackson integrals associated with root systems. **99b:33043**

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— (*with* Remmel, Jeffrey B.) Plethystic formulas and positivity for q, t-Kostka coefficients. (English summary) **99j:05189d**
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Exton, Harold q-deformation and a stable closed static cosmology. (English summary) **99c:83105**
Micu, C. (*with* Papp, E.) Non-polynomial solutions to the q-difference form of the Harper equation. (English summary) **99g:39021**
Papp, E. *see* **Micu, C., 99g:39021**
Scott, Lynne C. *see* **Seaton, Katherine A., 99b:82028**
Seaton, Katherine A. (*with* Scott, Lynne C.) q-trinomial coefficients and the dilute A model. (English summary) **99b:82028**

33D99 None of the above, but in this section

Borges, Ernesto P. On a q-generalization of circular and hyperbolic functions. (English summary) **99g:33054**
Brambilla, Nora (*with* Montaldi, Emilio) Remarks on some series considered by Ramanujan. (English summary) **99g:33055**
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Benaoum, H. B. h analogue of Newton's binomial formula. (English summary) **99m:05004a**
— (q, h)-analogue of Newton's binomial formula. Addendum to: "h-analogue of Newton's binomial formula". (English summary) **99m:05004b**

33Exx Other special functions

33E05 Elliptic functions and integrals

Aguirre Téllez, Manuel Antonio A generalization of Pizetti's formula. (English summary) **99k:33060**
Anderson, G. D. (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Elliptic integral inequalities, with applications. (English summary) **99k:33061**
Bukhshtaber, V. M. (*with* Leĭkin, D. V.; Ènol′skiĭ, V. Z.) A recursive family of differential polynomials generated by the Sylvester identity, and addition theorems for hyperelliptic Klein functions. (Russian. Russian summary) **99f:33025**
Ènol′skiĭ, V. Z. *see* **Bukhshtaber, V. M.; et al., 99f:33025**
Hirschhorn, Michael D. Proofs of some hyperelliptic function identities. (English summary) **99j:33025**
Huang, Zheng *see* **Qi, Feng, 99k:33062**
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Pintér, Ákos (*with* Srivastava, Hari M.) Some remarks on generalized elliptic-type integrals. (English summary) **99h:33064**
Qi, Feng (*with* Huang, Zheng) Inequalities of the complete elliptic integrals. (English summary) **99k:33062**
Qiu, Songliang (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti K.) Some inequalities for the growth of elliptic integrals. (English summary) **99k:33063**
— *see also* **Anderson, G. D.; et al., 99k:33061**
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— A unified theory of some families of elliptic integrals arising in radiation field and other problems. (English summary) **99g:33056**
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Tselnik, David S. On trigonometric series expansions of twelve Jacobian elliptic functions. (English summary) **99e:33025**
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Yildiz, Ismet Establishment of elliptic and quasi-elliptic functions by using a different method. (English summary)
— On equalities among characteristic functions of first order theta function. (English summary) **99k:33064**

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Alzer, Horst Sharp inequalities for the complete elliptic integral of the first kind. (English summary) **99k:26021**
Aoki, Takashi Multiple-scale analysis of Duffing's equation and Fourier series expansion of Jacobi's elliptic functions. (*see* **99d:00021**)
Barletta, Elisabetta (*with* Dragomir, Sorin) On γ-weak solutions of elliptic equations. (English summary) **99b:35032**
Baxter, Rodney J. Some hyperelliptic function identities that occur in the chiral Potts model. (English summary) **99k:82019**
Braden, H. W. (*with* Bukhshtaber, V. M.) The general analytic solution of a functional equation of addition type. (English summary) **99h:39027**
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Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and interpolatory product rules on the unit circle. II. Quadrature and convergence. (English summary) **99i:30054**
Calogero, F. Generalized Lagrangian interpolation, finite-dimensional representations of shift operators, remarkable matrices, trigonometric and elliptic identities. (English summary) **99i:41002**
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Cooper, Shaun A functional equation and Jacobian elliptic functions. (English summary) **99g:39030**
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El-Gabali, Magdi A. (*with* Kalla, Shyam L.) Simple algorithms for approximations of generalized elliptic-type integrals. (English summary) (*see* **99i:00031**)
Gesztesy, Fritz (*with* Weikard, Rudi) Elliptic algebro-geometric solutions of the KdV and AKNS hierarchies—an analytic approach. (English summary) **99i:58075**
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Ismail, Mourad E. H. (*with* Valent, Galliano) On a family of orthogonal polynomials related to elliptic functions. **99k:30066**
Kalla, Shyam L. *see* **El-Gabali, Magdi A., (99i:00031)**
Kaplan, Abdullah (*with* Kültür, M. Nuri) A study on the kth-order general theta functions. (English summary) **99c:11048**
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Nishiwada, Kimimasa Algorithm of the arithmetic-geometric mean and its complex limits. (English summary) **99c:11065**
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Park, Hwasin (*with* Kim, Daeyeoul) A remark on the Dedekind $\eta(\tau)$-function and θ_3-series. (English summary) **99c:11046**
Park, Joong Soo (*with* Kim, Daeyeoul) q-expansion of the modular discriminant. (English summary) **99i:11028**
Petrov, G. S. On the nonoscillation of elliptic integrals. (Russian. Russian summary) **99a:34087**
Shen, Li-Chien On an identity of Ramanujan based on the hypergeometric series ${}_2F_1(\frac{1}{4}, \frac{3}{4}; \frac{1}{2}; x)$. (English summary) **99d:11042**
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Vuorinen, Matti K. Hypergeometric functions in geometric function theory. (English summary) **99i:33003**
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Weil, André Théorèmes fondamentaux de la théorie des fonctions thêta (d'après des mémoires de Poincaré et Frobenius). [Fundamental theorems of the theory of theta functions (after memoirs by Poincaré and Frobenius)] (*see* **99f:00033**)
Yang, Jie[1] *see* **Chen, Bang-Yen, 99k:53110**
Zeiner, P. (*with* Dirl, R.; Davies, B. L.) Bloch and Wannier functions composed of Gaussian orbitals—analyticity, localization, and expectation values. (English summary) **99a:81028**

33E10 Lamé, Mathieu, and spheroidal wave functions

(Askey, Richard) *see* **Onsager, Lars, (98b:01042)**
Muhamad, N. K. *see* **Sharma, Shri Deo, 99h:33065**
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Dobner, Hans-Jürgen (*with* Ritter, Stefan) Numerical computation of Lamé functions. (English summary) (*see* **99i:00031**)
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Ritter, Stefan *see* **Dobner, Hans-Jürgen, (99i:00031)**
Torres-Vega, Go. (*with* Morales-Guzmán, J. D.; Zúñiga-Segundo, A.) Special functions in phase space: Mathieu functions. (English summary) **99i:81084**
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33E15 Other wave functions

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Fryant, A. (*with* Vemuri, M. K.) Wave polynomials. (English summary) **99i:35086**
Kamimoto, Joe On an integral of Hardy and Littlewood. **99c:58158**
Kaminski, D. (*with* Paris, R. B.) Asymptotics via iterated Mellin-Barnes integrals: application to the generalised Faxén integral. (English summary) **99a:41048**
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33E20 Other functions defined by series and integrals

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Cooper, S. Clement *see* **Cochran, Lyle, 99m:33013**
Garrido de Barrios, Ninfa (*with* Andrade de Fuenmayor, Carmen) Two generalizations of the Hubbell integral. (Spanish. English and Spanish summaries) **99b:33045**
Gorenflo, Rudolf (*with* Mainardi, Francesco; Srivastava, Hari M.) Special functions in fractional relaxation-oscillation and fractional diffusion-wave phenomena. (English summary) **99g:33057**
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Kilbas, A. A. (*with* Saigo, Megumi) On Mittag-Leffler type function, fractional calculus operators and solutions of integral equations. (English summary) **99g:33058**
Mainardi, Francesco *see* **Gorenflo, Rudolf; et al., 99g:33057**
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Exton, Harold New solutions of the confluent Heun equation. (English summary) **99m:34002**
Gawronski, Wolfgang (*with* Gröling, Alexander) Oscillating asymptotics for $\sum_0^\infty \log^k(n+1)z^n$. (English summary) **99a:30037**
Gröling, Alexander *see* **Gawronski, Wolfgang, 99a:30037**
Kateb, Djalil (*with* Lemarié-Rieusset, Pierre Gilles) The phase of the Daubechies filters. (English summary) **99d:42049**
Khan, Mumtaz Ahmad *see* **Pathan, M. A., 99d:33015**
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Mainardi, Francesco Fractional calculus: some basic problems in continuum and statistical mechanics. (English summary) **99f:26010**
Ogreid, Odd Magne (*with* Osland, Per) Summing one- and two-dimensional series related to the Euler series. (English summary) **99m:40003**
Osland, Per *see* **Ogreid, Odd Magne, 99m:40003**
Palamodov, V. P. Special functions of several variables. **99m:32045**
Passare, Mikael (*with* Tsikh, A. K.; Cheshel', A. A.) Multiple Mellin-Barnes integrals as periods on Calabi-Yau manifolds with several moduli. (Russian. English and Russian summaries) **99d:32026**
Pathan, M. A. (*with* Khan, Mumtaz Ahmad) On polynomials associated with Humbert's polynomials. (English summary) **99d:33015**
Percival, D. J. (*with* Robinson, P. A.) Generalized plasma dispersion functions. (English summary) **99f:82060**
Robinson, P. A. *see* **Percival, D. J., 99f:82060**
Saigo, Megumi (*with* Kilbas, A. A.) On Mittag-Leffler type function and applications. (English summary) **99i:26010**
Tsikh, A. K. *see* **Passare, Mikael; et al., 99d:32026** *and* **Zhdanov, O. N., 99k:32007**

Zhdanov, O. N. (*with* Tsikh, A. K.) Computation of multiple Mellin-Barnes integrals by means of multidimensional residues. (Russian) **99k:32007**

33E30 Other functions coming from differential, difference and integral equations

Mehta, Madan Lal (*with* Normand, Jean-Marie) On some definite multiple integrals. (English summary) **99g:33059**
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Owens, Robert G. Spectral approximations on the triangle. (English summary) **99i:33028**

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Chetouani, Lyazid *see* **Dekar, Liès; et al., 99f:81038**
Dehesa, Jesús S. *see* **Álvarez-Nodarse, Renato; et al., 99h:33058**
Dekar, Liès (*with* Chetouani, Lyazid; Hammann, Théophile F.) An exactly soluble Schrödinger equation with smooth position-dependent mass. (English summary) **99f:81038**
Engliš, Miroslav (*with* Peetre, Jaak) Green's functions for powers of the invariant Laplacian. (English summary) **99c:58146**
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Hammann, Théophile F. *see* **Dekar, Liès; et al., 99f:81038**
Kajiwara, Kenji (*with* Ohta, Yasuhiro) Determinant structure of the rational solutions for the Painlevé IV equation. (English summary) **99g:34004**
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Luchko, Yurii F. (*with* Gorenflo, Rudolf) Scale-invariant solutions of a partial differential equation of fractional order. (English summary) **99i:35006**
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Pathak, M. P. (*with* Singh, V. N.) Generalized quasi-hypergeometric functions. (English summary) **99h:33024**
Peetre, Jaak *see* **Engliš, Miroslav, 99c:58146**
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33E99 None of the above, but in this section

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Hare, D. E. G. *see* **Jeffrey, D. J.; et al., 99d:65157**
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34–XX Ordinary differential equations

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Carlson, Robert *see* **Coddington, Earl A., 99j:34001**
Coddington, Earl A. (*with* Carlson, Robert) ★ Linear ordinary differential equations. (English summary) **99j:34001**
Salaff, Stephen (*with* Yau, Shing-Tung) ★ Ordinary differential equations.
Yau, Shing-Tung *see* **Salaff, Stephen**

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Arnol'd, Vladimir Igorevich "Hard" and "soft" mathematical models. (Russian. Russian summary) **99d:00007**
Chatterji, Srishti D. ★ Cours d'analyse. 3. (French. French summary) [Analysis course. 3] **99i:00001**
Forrester, P. J. *see* **Fulford, G. R.; et al., 99f:00009**
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Stakgold, Ivar ★ Green's functions and boundary value problems. (English summary) **99a:35002**
Vanninathan, Muthusamy Some issues in dynamical systems. (English summary) **99m:58078**

34–02 Research exposition (monographs, survey articles)

Deo, S. G. *see* **Lakshmikantham, V., 99g:34001**
Lakshmikantham, V. (*with* Deo, S. G.) ★ Method of variation of parameters for dynamic systems. **99g:34001**
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34–03 Historical (must also be assigned at least one classification number from Section 01)

Demidov, Sergeĭ S. (*with* Petrova, S. S.; Simonov, N. I.) Ordinary differential equations. (*see* **99d:01022**)
Petrova, S. S. *see* **Demidov, Sergeĭ S.; et al.,** (**99d:01022**)
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Mira, Christian Some historical aspects of nonlinear dynamics—possible trends for the future. (English summary) **99m:01027**
(Nohel, John A.) *see* **Levinson, Norman, 99d:01039a**
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Żołądek, Henryk Hilbert's Sixteenth Problem. (Polish. English summary) (*see* **99b:01001**)

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Biography:
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34–04 Explicit machine computation and programs (not the theory of computation or programming)

Bischof, Christian H. *see* **Eberhard, Peter,** (**99f:90007**)
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Bi, Qin Sheng (*with* Yu, Pei) Symbolic computation of normal forms for semi-simple cases. (English summary) **99k:34080**
Campbell, Stephen L. (*with* Hollenbeck, R.; Yeomans, Kevin D.; Zhong, Yangchun) Mixed symbolic-numerical computations with general DAEs. I. System properties. (English summary) **99m:65150**
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García, I. A. *see* **Chavarriga, Javier; et al., 99m:34058**
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Huseyin, Koncay *see* **Sensoy, S., 99d:34059**
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Steeb, Willi-Hans ★ Continuous symmetries, Lie algebras, differential equations and computer algebra. (English summary) **99h:58205**
Steinberg, Stanly *see* **Hong, Hoon; et al., 99a:34144**
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Taylor, Ross Thermodynamics with Maple. I. Symbolic computation. (English summary) **99f:80001**
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34–06 Proceedings, conferences, collections, etc.

(Coleman, Rodney Graham) *see* **Differential algebraic equations, 99h:34001**
(Healey, Timothy J.) *see* **Computational methods and bifurcation theory with applications, 99k:34001**
(Liu, Xinzhi) *see* **Differential equations and dynamical systems, 99m:34001**
(Siegel, David) *see* **Differential equations and dynamical systems, 99m:34001**
(Vodop'yanov, V. V.) *see* **Functional-differential equations and their applications**

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(Agarwal, Ravi P.) *see* **Equadiff, 99a:00025**
(Bainov, Drumi Dimitrov) *see* **Proceedings: Colloquium on Differential Equations, 99d:00026** *and* **99g:00044**
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(Bruno, Alexander D.) *see* **Simplification of systems of algebraic and differential equations with applications, 99a:00047**
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  Birth of Ważewski, Tadeusz ★ Proceedings of the Conference "Topological Methods in Differential Equations and Dynamical Systems". **99f:58002**
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  Differential Equations—Theory, Methods and Applications ★ Differential equations—theory, methods and applications. **99g:00038**
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  Differential Equations and Mathematical Biology ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
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Proceedings:
  Colloquium on Differential Equations ★ Proceedings of the 5th International Colloquium on Differential Equations. Vol. 2. **99g:00044**
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  Conference on Difference Equations and Computational Simulations ★ Proceedings of the Third Mississippi State Conference on Difference Equations and Computational Simulations. **99h:00032**
  Conference on Topological Methods in Differential Equations and Dynamical Systems ★ Proceedings of the Conference "Topological Methods in Differential Equations and Dynamical Systems". **99f:58002**
Recent advances in differential equations ★ Recent advances in differential equations. **99a:00045**
School:
  Applications of Mathematics in Engineering ★ Applications of mathematics in engineering. **99m:00024**
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Veszprém ★ Advances in difference equations. **99d:39001**

34Axx General theory

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Anosov, D. V. (*with* Aranson, S. Kh.; Arnol′d, Vladimir Igorevich; Bronshteĭn, I. U.; Grines, V. Z.; Il′yashenko, Yu. S.) ★ Ordinary differential equations and smooth dynamical systems. **99h:58053**
Aranson, S. Kh. *see* **Anosov, D. V.; et al., 99h:58053**
Arnol′d, Vladimir Igorevich *see* **Anosov, D. V.; et al., 99h:58053**
Bronshteĭn, I. U. *see* **Anosov, D. V.; et al., 99h:58053**
(Dawson, E. R.) *see* **Anosov, D. V.; et al., 99h:58053**
Grines, V. Z. *see* **Anosov, D. V.; et al., 99h:58053**
Il′yashenko, Yu. S. *see* **Anosov, D. V.; et al., 99h:58053**
(O'Shea, Donal) *see* **Anosov, D. V.; et al., 99h:58053**

34A05 Explicit solutions and reductions

Abramov, Sergei A. (*with* Zima, E. V.) Ore polynomial rings and the reduction of linear systems. (Russian)
Al-Saqabi, Bader (*with* Kiryakova, Virginia S.) Explicit solutions of fractional integral and differential equations involving Erdélyi-Kober operators. (English summary) **99b:34001**
Amar, Makhlouf (*with* Tounsi, Bahloul) Study of the Ince equation. (English summary) **99g:34002**
Dimitrovski, Dragan (*with* Stefanovska, L.; Kujumdzieva-Nikoloska, M.) Every Riccati equation can be solved by quadratures in a wider sense. (English summary) **99g:34003**
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Kajiwara, Kenji (*with* Ohta, Yasuhiro) Determinant structure of the rational solutions for the Painlevé IV equation. (English summary) **99g:34004**
Kanantthai, Amnuay Distribution solutions of the third order Euler equation. (English summary) **99i:34002**
Kiryakova, Virginia S. *see* **Al-Saqabi, Bader, 99b:34001**
Kujumdzieva-Nikoloska, M. *see* **Dimitrovski, Dragan; et al., 99g:34003**
Men′kov, G. B. *see* **Vinogradov, Yu. I.**
Ohta, Yasuhiro *see* **Kajiwara, Kenji, 99g:34004**
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Schwarz, Fritz Franz Algorithmic solution of Abel's equation. (English summary) **99g:34005**
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Starc, Zdravko F. On solving a nonlinear ordinary differential equation of the third order. (English and Macedonian summaries)
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Chavarriga, Javier (*with* Giné, Jaume) Integrability of cubic systems with degenerate infinity. (English summary) **99h:34044**
— (*with* García, I. A.; Giné, Jaume) Quadratic integrable chordal systems. **99d:34042**
— (*with* Giné, Jaume) Integrability of a linear center perturbed by cubic polynomials. **99d:34043**
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El-Sayed, Ahmed M. A. (*with* Gaafar, F. M.) Exact solution of linear differential equations of fractional order. (English summary) **99b:34013**
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Gao, Puyun (*with* Liu, Zhaonan) An indirect method of finding integrals for three-dimensional quadratic homogeneous systems. (English summary) **99b:34017**
García, I. A. *see* **Chavarriga, Javier; et al., 99d:34042**
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Grebot, Guy The third order ordinary differential equations admitting the Painlevé I and II as first integrals. (English summary) **99i:34016**
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Nuñez Jimenez, Carmen (*with* Obaya García, Rafael) Nontangential limit of the Weyl m-functions for the ergodic Schrödinger equation. (English summary) **99g:58078**
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— (*with* Shuster, L. A.) Weight summability of solutions of the Sturm-Liouville equation. (English summary) **99m:34055**
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Yakubov, V. Ya. The Cauchy problem for the Sturm-Liouville equation and estimates for its solution with respect to the parameter λ. (Russian) **99m:34057**
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Amirov, R. Kh. (*with* Gülyaz, S.) Inverse spectral problem for the differential equation of the second order with singularity. (English summary) **99g:34037**
— (*with* Çakmak, Y.) Trace formula for the Sturm-Liouville operator with singularity. (English summary) **99g:34163**
Andrianov, A. Yu. Description of transfer functions of an inverse problem for a class of Sturm-Liouville operators. (Russian) **99c:34021**
Baĭramogly, M. (*with* Adygezalov, A. A.) On a regularized trace formula for the Sturm-Liouville operator with a bounded operator coefficient and with a singularity. (Russian. Russian summary) **99a:34228**
Bartuzel, Grzegorz (*with* Fryszkowski, Andrzej) Relaxation of the differential inclusions of the Sturm-Liouville type. (English summary) **99a:34034**
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— Eigenvalue problems: a control-theoretic approach. (English summary) (*see* **99m:34001**)
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— *see also* **Brown, B. Malcolm**; **et al.**, **99b:34138** *and* **99g:34165**
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— (*with* Yang, Ching-Fu) Addendum: "Reconstructing the potential function and its derivatives using nodal data". (English summary) **99b:34029b**
— (*with* Huang, Yu-Ling) Eigenvalue ratios and eigenvalue gaps of Sturm-Liouville operators. (English summary) **99c:34193**
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Vinokurov, V. A. (*with* Sadovnichiĭ, V. A.) Asymptotics of the Sturm-Liouville boundary value problem on an interval with an integrable potential. (Russian) **99c:34195**
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Zayed, Ahmed I. (*with* García, Antonio G.) Kramer's sampling theorem with discontinuous kernels. (English summary) **99g:41004**

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Stepanov, G. D. Effective criteria for the sign-regularity and oscillation of Green functions for two-point boundary value problems. (Russian. Russian summary) **99c:34046**
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— (*with* Yurko, V. A.) Expansion theorems for boundary value problems with a singularity. (English summary) **99b:34133**
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— ★ Ordinary differential equations with constant coefficient. (English summary) **99a:34017b**
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— ★ Influence functions and matrices. (English summary) **99k:73036**
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34B30 Special equations (Mathieu, Hill, Bessel, etc.)

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Lesky, P. A. Eigenwertprobleme mit Differentialgleichungen vierter Ordnung für die kontinuierlichen klassischen Orthogonalpolynome. (German summary) [Eigenvalue problems with differential equations of fourth order for the continuous classical orthogonal polynomials] **99h:34041**
Linh, Vu Hoang On some questions arising in numerical realization of amplitude-phase methods. (English summary) **99k:34052**
Wong, Roderick (*with* Zhang, Ji Min) The asymptotics of a second solution to the Jacobi differential equation. (English summary) **99a:34072**
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Chang, Shau-Jin (*with* Yurchenko, Alex) Localized zero modes and the breakup of KAM tori. (English summary) **99e:58151**
El Kamel, J. (*with* Fitouhi, A.) Expansion in terms of Gegenbauer polynomials for solutions of a perturbed Gegenbauer differential equation. (English summary) **99b:33005**
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Gorenflo, Norbert Transformation of an axialsymmetric disk problem for the Helmholtz equation into an ordinary differential equation. (English summary) **99g:45008**
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Han, Zhen Lai *see* **Shi, Yu Ming[1]; et al.**, **99m:33003**
Hayek Calil, Nácere (*with* Hernández Suárez, Víctor; Cabrera Suárez, Francisco S.) Asymptotic solutions of the nth-order Bessel-Clifford differential equation. (Spanish) (*see* **99d:00018**)
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Kwon, Kil Hyun (*with* Littlejohn, Lance L.) Classification of classical orthogonal polynomials. (English summary) **99k:33028**
— *see also* **Everitt, W. N.; et al.**, **99b:33016**
Lang, Wolfdieter On sums of powers of zeros of polynomials. (English summary) **99f:30010**
Lazhari, M. N. (*with* Rachdi, L. T.; Trimèche, Khélifa) Asymptotic expansion and generalized Schläfli integral representation for the eigenfunction of a singular second-order differential operator. (English summary) **99a:34225**
Littlejohn, Lance L. *see* **Everitt, W. N.; et al.**, **99b:33016** *and* **Kwon, Kil Hyun**, **99k:33028**
Mrziglod, Thomas On the solution structure of nonlinear Hill's equation. II. Local results. (English summary) **99g:34055**
Nguyen Thanh Long (*with* Ortiz, E. L.; Pham Ngoc Dinh, A.) On the existence of a solution of a boundary value problem for a non-linear Bessel equation on an unbounded interval. (English summary) **99h:34036**
Ortiz, E. L. *see* **Nguyen Thanh Long; et al.**, **99h:34036**
Pham Ngoc Dinh, A. *see* **Nguyen Thanh Long; et al.**, **99h:34036**
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Ragos, O. *see* **Vrahatis, M. N.; et al.**, **99d:65064**
Schwarz, Fritz Franz Algorithmic solution of Abel's equation. (English summary) **99g:34005**
Shi, Yu Ming[1] (*with* Han, Zhen Lai; Zhu, Dongmei) The generalized Airy functions. (English summary) **99m:33003**
Slavyanov, Sergei Yu. Multipole moments for Coulomb and oscillator wavefunctions and the Heun equation. (English summary) **99m:81049**
Trimèche, Khélifa *see* **Lazhari, M. N.; et al.**, **99a:34225**
Vrahatis, M. N. (*with* Grapsa, T. N.; Ragos, O.; Zafiropoulos, F. A.) On the localization and computation of zeros of Bessel functions. (English summary) **99d:65064**
Wellman, R. *see* **Everitt, W. N.; et al.**, **99b:33016**
Yurchenko, Alex *see* **Chang, Shau-Jin**, **99e:58151**
Zafiropoulos, F. A. *see* **Vrahatis, M. N.; et al.**, **99d:65064**
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34B99 None of the above, but in this section

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Kadchenko, S. I. *see* **Sadovnichiĭ, V. A.; et al.**, **99i:76050** *and* **99i:76051**
Kravchenko, V. F. *see* **Sadovnichiĭ, V. A.; et al.**, **99i:76050** *and* **99i:76051**
Kwon, Kil Hyun (*with* Lee, Dong Won[1]; Littlejohn, Lance L.) Differential equations having orthogonal polynomial solutions. (English summary) **99d:33009**
Lee, Dong Won[1] *see* **Kwon, Kil Hyun; et al.**, **99d:33009**
Littlejohn, Lance L. *see* **Kwon, Kil Hyun; et al.**, **99d:33009**
Sadovnichiĭ, V. A. (*with* Dubrovskiĭ, V. V.; Kadchenko, S. I.; Kravchenko, V. F.) Computation of the first eigenvalues of a boundary value problem of the hydrodynamic stability of a flow between two parallel planes for small Reynolds numbers. (Russian) **99i:76050**
— (*with* Dubrovskiĭ, V. V.; Kadchenko, S. I.; Kravchenko, V. F.) Computation of the first eigenvalues of a boundary value problem on the hydrodynamic stability of a Poiseuille flow in a circular tube. (Russian. Russian summary) **99i:76051**

34Cxx Qualitative theory [see also 58Fxx]

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Anosov, D. V. (*with* Aranson, S. Kh.; Arnol'd, Vladimir Igorevich; Bronshteĭn, I. U.; Grines, V. Z.; Il'yashenko, Yu. S.) ★ Ordinary differential equations and smooth dynamical systems. **99h:58053**
Aranson, S. Kh. *see* **Anosov, D. V.; et al.**, **99h:58053**
Arnol'd, Vladimir Igorevich *see* **Anosov, D. V.; et al.**, **99h:58053**
Bronshteĭn, I. U. *see* **Anosov, D. V.; et al.**, **99h:58053**
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Bulatović, Ranislav On the stability of linear potential gyroscopic systems in cases when the potential energy has a maximum. (Russian. Russian summary) **99g:70026**
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Chen, Ju Fang (*with* Tang, San Yi; Xiao, Yan Ni) Permanence and positive solution of nonautonomous Lotka-Volterra with diffusion cooperative system. (English and Chinese summaries) **99a:92025**
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— (*with* Sigmund, Karl) ★ Evolutionary games and population dynamics. (English summary) **99h:92027**
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Tu, Caifeng (*with* Jiang, Ji Fa) The coexistence of a community of species with limited competition. (English summary) **99c:92061**
Verbitskiĭ, V. G. (*with* Lobas, Leonid Grigor′evich) Nonlinear stability and bifurcation sets of stationary states of wheeled robots under variation of the control parameters. (Russian. English, Russian and Ukrainian summaries) **99c:70004**
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Wada, Teruyo (*with* Ikeda, Masao; Ohta, Yuzo; Šiljak, Dragoslav D.) Parametric absolute stability of Lur′e systems. (English summary) **99h:93091**
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34Exx Asymptotic theory

34E05 Asymptotic expansions

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— Asymptotic theory for a critical case for a general fourth-order differential equation. (English summary) **99c:34115**
— Asymptotic formulae of Liouville-Green type for a general fourth-order differential equation. (English summary) **99i:34074**
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— (*with* Kostin, A. V.) Asymptotic representations on the half-axis of solutions of linear homogeneous systems with small parameters multiplying the derivatives. (Russian. English and Georgian summaries)
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Evtukhov, V. M. (*with* Vasil′eva, N. S.) Asymptotic representations of regular solutions of a second-order semilinear differential equation. (Russian. English and Georgian summaries)
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— Nonuniformity of adiabatic invariance for nonlinear oscillators. (English summary) **99k:34118**
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Kuznetsova, N. A. Asymptotic behavior on the half-axis of solutions of a second-order degenerate differential equation with a parameter. (Russian) (*see* **99m:00019**)
Murphy, B. T. M. (*with* Wood, Alastair D.) Hyperasymptotic solutions of second-order ordinary differential equations with a singularity of arbitrary integer rank. (English summary) **99b:34094**
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— Hyperasymptotic solutions of higher order linear differential equations with a singularity of rank one. (English summary) **99g:34116**
— (*with* Olver, F. W. J.) On the asymptotic and numerical solution of linear ordinary differential equations. (English summary) **99g:34117**
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— Advances in the asymptotic and numerical solution of linear ordinary differential equations. (English summary) **99c:34118**
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Ma, Shi Wang (*with* Yu, Jian She; Wang, Zhi Cheng[1]) Global solutions of functional-differential equations with periodic perturbations. (Chinese. Chinese summary)
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34K10 Boundary value problems

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34K15 Qualitative theory

Agarwal, Ravi P. (*with* Grace, S. R.) Oscillation of certain systems of functional-differential equations. (English summary) **99m:34154**

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Belykh, L. N. On the problem of replacing an ordinary differential equation with constant time delay by the system of ordinary differential equations. (English summary) **99g:34137**

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Bychkov, A. S. The stability of the neutral type linear stochastic system. Optimal characteristic of solutions. (English summary) **99e:34104**
Clément, Philippe (*with* Da Prato, Giuseppe; Prüss, Jan) White noise perturbation of the equations of linear parabolic viscoelasticity. (English summary) **99m:34183**
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Donchev, Doncho S. A system of functional-differential equations associated with the optimal detection problem for jump-times of a Poisson process. (English summary) **99c:60110**
Drozdov, Aleksey D. Explicit stability conditions for stochastic integro-differential equations with non-selfadjoint operator coefficients. (English summary) **99k:45029**
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34K99 None of the above, but in this section

Items with secondary classifications in 34K99

Brunner, Hermann *see* **Zhang, Wenkui**, **99j:65243**
Castillo-Chavez, Carlos *see* **Xu, Wenxiong**, **99k:45025**
Enright, W. H. (*with* Hayashi, Hiroshi²) Convergence analysis of the solution of retarded and neutral delay differential equations by continuous numerical methods. (English summary) **99h:65127**
Göktaş, Ünal (*with* Hereman, Willy) Computation of conservation laws for nonlinear lattices. (English summary) (*see* **99h:00031**)
Hayashi, Hiroshi² *see* **Enright, W. H.**, **99h:65127**
Hereman, Willy *see* **Göktaş, Ünal**, (**99h:00031**)
Hu, Xing-Biao *see* **Wu, Yong-Tang**
Huang, Hong-ci *see* **Zhu, Zuo-Nong**, **99j:58106**
Labrieu, Michel Inclusions de Volterra. (English and French summaries) [Volterra integral inclusions] **99g:45007**
Narita, Kazuaki Solutions for the Mikhailov-Shabat-Yamilov difference-differential equations and generalized solutions for the Volterra and the Toda lattice equations. (English summary) **99e:35192a**
— Addenda: "Solutions for the Mikhailov-Shabat-Yamilov difference-differential equations and generalized solutions for the Volterra and the Toda lattice equations". **99e:35192b**
— Errata: "Solutions for the Mikhailov-Shabat-Yamilov difference-differential equations and generalized solutions for the Volterra and the Toda lattice equations" [Progr. Theoret. Phys. **99** (1998), no. 3, 337–348; MR 99e:35192a].
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Sesekin, A. N. *see* **Zavalishchin, S. T.**, **99h:34018**
Wu, Yong-Tang (*with* Hu, Xing-Biao) A new integrable differential-difference system and its explicit solutions. (English summary)
Xu, Wenxiong (*with* Castillo-Chavez, Carlos) Existence and uniqueness of solutions of a model in differential-integral equations. (English and Chinese summaries) **99k:45025**
Zavalishchin, S. T. (*with* Sesekin, A. N.) ★ Dynamic impulse systems. (English summary) **99h:34018**
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Zhu, Zuo-Nong (*with* Huang, Hong-ci) Some new nonlinear differential-difference integrable hierarchies. (English summary) **99j:58106**

34Lxx Ordinary differential operators [see also 47E05]

34L05 General spectral theory

Agarwal, Ravi P. (*with* Bohner, Martin; Wong, Patricia J. Y.) Sturm-Liouville eigenvalue problems on time scales. (English summary) **99k:34184**
Aĭgunov, G. A. On estimates of S. N. Bernstein type for eigenfunctions of differential operators. (Russian. English and Russian summaries) **99e:34116**
Aleksandrova, E. V. A trace formula for the equation of the oscillations of an elastic rod. (Russian) **99a:34217**
Alpay, Daniel (*with* Gohberg, Israel) Potentials associated to rational weights. (English summary) **99a:34218**
Bakalov, B. (*with* Horozov, Emil; Yakimov, M.) Bispectral algebras of commuting ordinary differential operators. (English summary) **99c:34188**
Bohner, Martin *see* **Agarwal, Ravi P.**; **et al.**, **99k:34184**
Carlson, Robert Adjoint and self-adjoint differential operators on graphs. (English summary) **99d:34158**
— Inverse eigenvalue problems on directed graphs. (English summary) **99m:34189**
Clemence, Dominic P. On the singular behaviour of the Titchmarsh-Weyl m-function for the perturbed Hill's equation on the line. (English summary) **99a:34219**
— Subordinacy analysis and absolutely continuous spectra for Sturm-Liouville equations with two singular endpoints. (English summary) **99a:34220**
Galaz Fontes, Fernando *see* **Kostyuchenko, A. G.**, **99i:34116**
Gohberg, Israel (*with* Kaashoek, M. A.; Sakhnovich, A. L.) Canonical systems with rational spectral densities: explicit formulas and applications. (English summary) **99j:34118**
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Grünbaum, F. Alberto Some bispectral musings. **99d:34159**
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Kostyuchenko, A. G. (*with* Galaz Fontes, Fernando) Behaviour of eigenvalues related to the oscillation of an elastic tube conveying liquid. (English summary) **99i:34116**

Langer, Heinz (*with* Winkler, Henrik) Direct and inverse spectral problems for generalized strings. (English summary) **99m:34190**

Lazhari, M. N. Paley-Wiener theorems for the Schrodinger operator on **R**. (English summary) **99k:34185**

Liu, Ying fan A homeomorphism theorem for certain $2n$th-order differential operator with a parameter. (English and Chinese summaries) **99g:34158**

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McKean, H. P. Variations on a theme of M. G. Kreĭn. **99m:34191**

Melik-Adamyan, F. È. On spectral functions of a class of canonical differential operators. (Russian. English and Russian summaries) **99k:34186**

Prasad, Ramadhar (*with* Sharma, Devnandan) Existence and uniqueness of Green's matrix associated with an $n \times n$ matrix differential operator. (English summary)

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Sakhnovich, L. A. Classic spectral problems. (English summary) **99e:34117**

— Spectral analysis of a class of canonical differential systems. (Russian) **99j:34120**

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Shuster, L. A. Estimates of eigenfunctions and localization of the spectrum of differential operators. (English summary) **99j:34121**

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Aĭgunov, G. A. On the spectrum of a class of one-dimensional operators of Schrödinger type with generalized potential. (Russian) **99e:34125**

Arov, Damir Z. (*with* Dym, Harry) J-inner matrix functions, interpolation and inverse problems for canonical systems. I. Foundations. (English summary) **99c:47011**

Baĭramov, È. M. (*with* Çakar, Öner; Krall, Allan M.) An eigenfunction expansion for a quadratic pencil of a Schrödinger operator with spectral singularities. (English summary) **99k:34037**

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Bavinck, Herman Linear perturbations of differential or difference operators with polynomials as eigenfunctions. (English summary) **99b:34020**

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Boĭmatov, K. Kh. (*with* Seddighi, Karim) Some spectral properties of ordinary differential operators generated by noncoercive forms. (Russian) **99b:47065**

Borisov, V. V. (*with* Okazawa, Noboru) Holomorphic families of linear operators in Banach spaces. (English summary) **99b:47051**

Brown, B. Malcolm (*with* Marletta, Marco) On a conjecture of Bennewitz, and the behaviour of the Titchmarsh-Weyl matrix near a pole. (English summary) **99c:34043**

Buslaev, Vladimir (*with* Grigis, Alain) Imaginary parts of Stark-Wannier resonances. (English summary) **99d:34164**

Çakar, Öner *see* **Krall, Allan M.; et al., 99k:34036** *and* **Baĭramov, È. M.; et al., 99k:34037**

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Denk, Robert On Hilbert-Schmidt operators and determinants corresponding to periodic ODE systems. (English summary) **99g:47039**

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Freiling, Gerhard (*with* Yurko, V. A.) On constructing differential equations with singularities from incomplete spectral information. (English summary) **99k:34026**

Gareeva, T. M. *see* **Pokornyĭ, Yu. V.; et al., 99k:34038**

Gaudenzi, Marcellino (*with* Habets, P.) Nonselfadjoint 4th order boundary value problems. **99c:34029**

Gesztesy, Fritz (*with* Weikard, Rudi) A characterization of all elliptic algebro-geometric solutions of the AKNS hierarchy. **99k:14052**

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— *see also* **Buslaev, Vladimir, 99d:34164**

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Harnad, John Bispectral operators, dual isomonodromic deformations and the Riemann-Hilbert dressing method. (English summary) **99b:58111**

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Jiang, Zhi Min Selfadjoint extensions of Volterra Stieltjes integrodifferential operators. (English summary) **99g:47119**

Kiselev, Alexander An interpolation theorem related to the a.e. convergence of integral operators. (English summary) **99i:47055**

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Kritskov, L. V. A lower bound for the Fourier images in the system of fundamental functions of the one-dimensional Schrödinger operator with a summable potential. (Russian. Russian summary) **99j:34126**

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Nersesyan, A. B. Integral equations associated with the singular Sturm-Liouville problem with a point source. (Russian. English and Russian summaries) **99k:45030**

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— Quasiregularity conditions for a "purely imaginary" third-order singular differential operator. (Russian) **99c:47071**

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Stepanov, G. D. Effective criteria for the sign-regularity and oscillation of Green functions for two-point boundary value problems. (Russian. Russian summary) **99c:34046**

Teschl, Gerald Deforming the point spectra of one-dimensional Dirac operators. (English summary) **99a:34230**

Vonhoff, Rolf Some remarks on left-definite Hamiltonian systems in the regular case. (English summary) **99i:34028**

Wang, Rubin *see* **Zhang, Zhikang; et al.**

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Zhang, Zhikang (*with* Wang, Rubin; Yasuda, Kimihiko) On joint stationary probability density function of nonlinear dynamic systems. (English summary)

34L10 Eigenfunction expansions, completeness of eigenfunctions

Freiling, Gerhard (*with* Rykhlov, V.) Pointwise convergence of eigenfunction expansions for a general class of regular eigenvalue problems. (English summary) **99d:34160**

— (*with* Yurko, V. A.) Expansion theorems for boundary value problems with a singularity. (English summary) **99b:34133**

— (*with* Trushin, I. Yu.) Abel-summability of eigenfunction expansions of three-point boundary value problems. (English summary) **99c:34191**

García, Antonio G. *see* **Hernández-Medina, Miguel Ángel, (99d:00018)**

Gavrilov, V. V. An analogue of the Riesz-Fischer theorem for the Fourier transforms corresponding to a one-dimensional Schrödinger operator with measurable and bounded potential. (Russian. Russian summary) **99g:34160**

— On the connection between the generalized Fourier images of a function expanded with respect to a Schrödinger operator with integrable potential, and its order of integrability. (Russian. Russian summary) **99a:34221**

Gilbert, D. J. On subordinacy and spectral multiplicity for a class of singular differential operators. (English summary) **99m:34192**

Hernández-Medina, Miguel Ángel (*with* García, Antonio G.) Fourier duality associated with regular Sturm-Liouville problems. (Spanish) (*see* **99d:00018**)
Ibrahim, S. F. M. Indefinite eigenvalue problem with eigenparameter in the two boundary conditions. (English summary) **99h:34120**
Kerimov, N. B. (*with* Mamedov, Kh. R.) On the Riesz basis property of root functions of some regular boundary value problems. (Russian. Russian summary) **99m:34193**
Khasaia, I. Some questions of convergency of spectral expansions. (English summary) **99e:34118**
— Problems of convergence multiple expansions in complex sphere for polynomial differential bundle with constant coefficients. (English summary)
— About sufficient conditions of convergency of spectral expansions. (English summary) **99f:34118**
Kudishin, P. M. An equiconvergence theorem for higher-order differential operators with a singularity. (Russian) **99a:34222**
— Errata: "An equiconvergence theorem for higher-order differential operators with a singularity" [Izv. Vyssh. Uchebn. Zaved. Mat. **1998**, no. 1, 41–50; MR 99a:34222]. (Russian)
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Langer, Heinz (*with* Tretter, Christiane) Spectral properties of the Orr-Sommerfeld problem. (English summary) **99e:34119**
Lomov, I. S. On the approximation of functions on a segment by spectral expansions of the Schrödinger operator. (Russian. Russian summary) **99d:34161**
— On the rate of convergence of biorthogonal expansions of functions. (Russian. Russian summary) **99j:34123**
— A coefficient condition for the convergence of biorthogonal expansions of functions in $\mathscr{L}^p(0,1)$. (Russian. Russian summary) **99i:34117**
— The basis property on compact sets of root functions of second-order differential operators. (Russian) **99g:34161**
Mamedov, Kh. R. *see* **Kerimov, N. B., 99m:34193**
Martinović, Milan The eigenfunctions expansion for a differential-functional operator of the second order. (English summary) **99c:34192**
Minkin, A. M. Equiconvergence. A generalization of the Tamarkin-Stone theorem. (Russian) **99e:34120**
Rykhlov, V. *see* **Freiling, Gerhard, 99d:34160**
Stëpin, S. A. On the spectral properties of the nonselfadjoint operator $ie(d^2/dx^2)+q(x)$. (Russian) **99g:34159**
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Ainola, Leo Isospectral vibration of quasi-uniform rods and strings. (English and Estonian summaries) **99e:73046**
Baĭramov, È. M. (*with* Çakar, Öner; Krall, Allan M.) An eigenfunction expansion for a quadratic pencil of a Schrödinger operator with spectral singularities. (English summary) **99k:34037**
Belinskiĭ, B. P. (*with* Dauer, Jerald P.) Eigenoscillations of mechanical systems with boundary conditions containing the frequency. (English summary) **99g:34059**
Çakar, Öner *see* **Baĭramov, È. M.; et al., 99k:34037**
Dauer, Jerald P. *see* **Belinskiĭ, B. P., 99g:34059**
Everitt, W. N. (*with* Kwon, Kil Hyun; Littlejohn, Lance L.; Wellman, R.) On the spectral analysis of the Laguerre polynomials $\{L_n^{-k}(x)\}$ for positive integers k. (English summary) **99b:33016**
Guseinov, G. Sh. (*with* Oturanç, Galip) On the theory of a certain class of quadratic pencils of matrices and its applications. (English summary) **99c:15002**
Kapustin, N. Yu. (*with* Moiseev, Evgeniĭ Ivanovich) On spectral problems with a spectral parameter in the boundary condition. (Russian. Russian summary) **99a:35190**
Krall, Allan M. *see* **Baĭramov, È. M.; et al., 99k:34037**
Kritskov, L. V. On the ordered spectral representation of the space $L_2(\mathbf{R})$ with respect to the Stark-effect Hamiltonian of regular type. II. (Russian. Russian summary) **99b:34140**
Kwon, Kil Hyun *see* **Everitt, W. N.; et al., 99b:33016**
Littlejohn, Lance L. *see* **Everitt, W. N.; et al., 99b:33016**
Malgrange, Bernard Équations de Sturm-Liouville. [Sturm-Liouville equations] (*see* **99f:00034**)
Minkin, A. M. A first-order boundary value problem with a boundary condition with a countable number of points. (Russian. Russian summary) **99a:34037**
Moiseev, Evgeniĭ Ivanovich *see* **Kapustin, N. Yu., 99a:35190**
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Pyatkov, S. G. Interpolation of some function spaces and indefinite Sturm-Liouville problems. (English summary) **99f:47060**
Uskova, N. B. Estimates for spectral expansions of the eigenvectors of some classes of perturbed differential operators. (Russian. Russian summary) **99b:47007**
Vonhoff, Rolf Some remarks on left-definite Hamiltonian systems in the regular case. (English summary) **99i:34028**
Wellman, R. *see* **Everitt, W. N.; et al., 99b:33016**

34L15 Estimation of eigenvalues, upper and lower bounds

Boumenir, Amin Eigenvalues of periodic Sturm-Liouville problems by the Shannon-Whittaker sampling theorem. (English summary) **99i:34118**
Chanane, B. Eigenvalues of fourth order Sturm-Liouville problems using Fliess series. (English summary) **99h:34121**
Egorov, Yurĭĭ Vladimirovich (*with* Kondrat'ev, Vladimir) On estimates of the first eigenvalue in some elliptic problems. (English summary) **99e:34121**
Ha, Chung-Wei Eigenvalues of a Sturm-Liouville problem and inequalities of Lyapunov type. (English summary) **99b:34134**
Ho, Alan A note on eigenvalues of ordinary differential operators. **99a:34224**
Huang, Min-Jei On the eigenvalue ratio for vibrating strings. (English summary) **99i:34119**
Huang, Yu-Ling *see* **Law, Chun-Kong, 99c:34193**
Karaa, Samir Sharp estimates for the eigenvalues of some differential equations. (English summary) **99d:34162**
Kondrat'ev, Vladimir *see* **Egorov, Yurĭĭ Vladimirovich, 99e:34121**
Law, Chun-Kong (*with* Huang, Yu-Ling) Eigenvalue ratios and eigenvalue gaps of Sturm-Liouville operators. (English summary) **99c:34193**

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Chanane, B. Eigenvalue problems: a control-theoretic approach. (English summary) (*see* **99m:34001**)
Constantin, Adrian A general-weighted Sturm-Liouville problem. **99c:34044**
Dauer, Jerald P. *see* **Belinskiĭ, B. P., 99g:34059**
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Eastham, Michael S. P. The asymptotic form of the spectral function in Sturm-Liouville problems with a large potential like $-x^c$ $(c \le 2)$. (English summary) **99a:34068**
Kadchenko, S. I. *see* **Sadovnichiĭ, V. A.; et al., 99i:76050**
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Kröger, Pawel On upper bounds for high order Neumann eigenvalues of convex domains in Euclidean space. (English summary) **99i:35118**
Lu, Sheng Guan An oscillation theorem for eigenvalues of the periodic problem for a Dirac equation. (Chinese. English and Chinese summaries) **99k:34187**
Maple, Carsten R. (*with* Marletta, Marco) Algorithms and software for selfadjoint ODE eigenproblems. (English summary) (*see* **99d:00026**)
Marletta, Marco *see* **Maple, Carsten R., (99d:00026)**
Martinović, Milan The eigenfunctions expansion for a differential-functional operator of the second order. (English summary) **99c:34192**
Niu, Peng Cheng (*with* Yu, Yuan Hong) Eigenvalue problems of second order differential equations with indefinite weight. (English summary)
Parfënov, O. G. Estimates for the spectrum of some differential operators. (Russian) **99b:46046**
Sadovnichiĭ, V. A. (*with* Dubrovskiĭ, V. V.; Kadchenko, S. I.; Kravchenko, V. F.) Computation of the first eigenvalues of a boundary value problem of the hydrodynamic stability of a flow between two parallel planes for small Reynolds numbers. (Russian) **99i:76050**
Taşeli, H. *see* **Zafer, A., 99m:65146**
Yu, Yuan Hong *see* **Niu, Peng Cheng**
Zafer, A. (*with* Taşeli, H.) Two-sided eigenvalue bounds for the spherically symmetric states of the Schrödinger equation. (English summary) **99m:65146**

34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions

Aĭgunov, G. A. On the asymptotics of normalized eigenfunctions of the Sturm-Liouville operator on a finite interval. (Russian) **99b:34135**
— *see also* **Gekhtman, Moiseĭ Meerovich, 99e:34122**
Birman, M. Sh. (*with* Laptev, A.; Solomyak, M. Z.) On the eigenvalue behaviour for a class of differential operators on semiaxis. (English summary) **99m:34194**
Gekhtman, Moiseĭ Meerovich (*with* Aĭgunov, G. A.) On sharp estimates for normalized eigenfunctions of the Sturm-Liouville operator on a finite interval with a continuous positive weight function. (Russian. English and Russian summaries) **99e:34122**
Laptev, A. *see* **Birman, M. Sh.; et al., 99m:34194**
Lazhari, M. N. (*with* Rachdi, L. T.; Trimèche, Khélifa) Asymptotic expansion and generalized Schläfli integral representation for the eigenfunction of a singular second-order differential operator. (English summary) **99a:34225**
Pechentsov, A. S. (*with* Popov, A. Yu.) Asymptotic behavior of the spectral function of a family of operators. (Russian) **99c:34194**
Popov, A. Yu. *see* **Pechentsov, A. S., 99c:34194**
Rachdi, L. T. *see* **Lazhari, M. N.; et al., 99a:34225**
Sadovnichiĭ, V. A. *see* **Vinokurov, V. A., 99c:34195**
Solomyak, M. Z. *see* **Birman, M. Sh.; et al., 99m:34194**
Trimèche, Khélifa *see* **Lazhari, M. N.; et al., 99a:34225**
Vinokurov, V. A. (*with* Sadovnichiĭ, V. A.) Asymptotics of the Sturm-Liouville boundary value problem on an interval with an integrable potential. (Russian) **99c:34195**

Items with secondary classifications in 34L20

Amirov, R. Kh. (*with* Çakmak, Y.) Trace formula for the Sturm-Liouville operator with singularity. (English summary) **99g:34163**
Andrianov, A. Yu. Description of transfer functions of an inverse problem for a class of Sturm-Liouville operators. (Russian) **99c:34021**
Çakmak, Y. *see* **Amirov, R. Kh., 99g:34163**
Gesztesy, Fritz (*with* Ünal, M.) Perturbative oscillation criteria and Hardy-type inequalities. (English summary) **99a:34069**
Ha, Chung-Wei Eigenvalues of a Sturm-Liouville problem and inequalities of Lyapunov type. (English summary) **99b:34134**
Lu, Sheng Guan An oscillation theorem for eigenvalues of the periodic problem for a Dirac equation. (Chinese. English and Chinese summaries) **99k:34187**
Naimark, K. (*with* Solomyak, M. Z.) Regular and pathological eigenvalue behavior for the equation $-\lambda u'' = Vu$ on the semiaxis. (English summary) **99b:34039**
Pivovarchik, V. N. On the spectra of small oscillations of a string in the presence of viscous friction on one end. (Russian) **99j:34127**
Podol'skiĭ, V. E. *see* **Sadovnichiĭ, V. A., 99b:34055**
Rejto, Peter (*with* Taboada, Mario) A turning point problem arising in connection with a limiting absorption principle for Schrödinger operators with generalized von Neumann-Wigner potentials. **99f:35030**

Sadovnichiĭ, V. A. (*with* Podol'skiĭ, V. E.) A class of Sturm-Liouville operators and the approximate computation of first eigenvalues. (Russian. Russian summary) **99b:34055**
Salekh, S. A. Regularized sum for eigenfunctions of multi-point problem in the commensurable case. (English summary) **99a:34039**
Shubov, Marianna A. Asymptotics of spectrum and eigenfunctions for nonselfadjoint operators generated by radial nonhomogeneous damped wave equations. (English summary) **99c:35179**
Solomyak, M. Z. *see* **Naimark, K., 99b:34039**
Taboada, Mario *see* **Rejto, Peter, 99f:35030**
Ünal, M. *see* **Gesztesy, Fritz, 99a:34069**

34L25 Scattering theory

Abd-El-Reheem, Zaki F. The inverse scattering problem for some singular Sturm-Liouville operator. (English summary) **99e:34123**
Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, C. V. M.) Wave scattering in 1-D nonconservative media. (English summary) **99d:34163**
— (*with* Klaus, Martin; van der Mee, C. V. M.) Inverse scattering in one-dimensional nonconservative media. (English summary) **99b:34136**
— (*with* Klaus, Martin; van der Mee, C. V. M.) Wave scattering in one dimension with absorption. (English summary) **99b:34137**
Arsen'ev, Alekseĭ Alekseevich An estimate for the solution of the problem of scattering by a one-dimensional trapping potential. (Russian. Russian summary) **99a:34226**
Beals, Richard William (*with* Sattinger, David H.; Szmigielski, Jacek) Acoustic scattering and the extended Korteweg-de Vries hierarchy. (English summary) **99i:34120**
Corona Corona, Gulmaro Couple coefficients for the two-block AKNS system. (English summary) **99a:34227**
Kazaryan, A. R. (*with* Khachatryan, I. G.) On the inverse scattering problem for higher-order differential operators with summable coefficients. I. (Russian. English and Russian summaries) **99f:34120a**
— (*with* Khachatryan, I. G.) On the inverse scattering problem for a differential operator of arbitrary order with coefficients summable on the entire axis. II. (Russian. English and Russian summaries) **99f:34120b**
— (*with* Khachatryan, I. G.) On the structure of the scattering matrix of a differential operator of arbitrary order with coefficients summable on the entire axis. (Russian. Armenian summary) **99j:34124**
Khachatryan, I. G. *see* **Kazaryan, A. R., 99f:34120a; 99f:34120b** *and* **99j:34124**
Klaus, Martin On the Riemann-Hilbert problem for the one-dimensional Schrödinger equation. (English summary) **99e:34124**
— *see also* **Aktosun, Tuncay; et al., 99b:34136; 99b:34137** *and* **99d:34163**
Kovalyov, M. Inverse scattering and infinite matrices. **99c:34196**
van der Mee, C. V. M. *see* **Aktosun, Tuncay; et al., 99b:34136; 99b:34137** *and* **99d:34163**
Sattinger, David H. *see* **Beals, Richard William; et al., 99i:34120**
Sylvester, John (*with* Winebrenner, Dale P.) 1-D inverse scattering via the Riesz transform. (*see* **99d:00023**)
Szmigielski, Jacek *see* **Beals, Richard William; et al., 99i:34120**
Winebrenner, Dale P. *see* **Sylvester, John, (99d:00023)**

Items with secondary classifications in 34L25

Airapetyan, R. G. (*with* Busha, J.; Zhidkov, E. P.) Numerical method for solving the inverse problem of quantum scattering theory. (English summary) (*see* **99k:65003**)
Alpay, Daniel (*with* Gohberg, Israel) Potentials associated to rational weights. (English summary) **99a:34218**
— (*with* Gohberg, Israel) Inverse problem for Sturm-Liouville operators with rational reflection coefficient. (English summary) **99m:34022**
Arsen'ev, Alekseĭ Alekseevich Some problems in the spectral theory of the Schrödinger operator that are associated with a mathematical model of a tunnel diode. (Russian. English and Russian summaries) **99b:81041**
Belinskiĭ, B. P. (*with* Dauer, Jerald P.; Xu, Yongzhi) Inverse scattering of acoustic waves in an ocean with ice cover. (English summary) **99b:76079**
Bikbaev, R. F. Complex Whitham deformations in problems with "integrable instability". (Russian. English and Russian summaries) **99b:35195**
Burtsev, S. P. (*with* Camassa, Roberto; Timofeyev, I.) Numerical algorithms for the direct spectral transform with applications to nonlinear Schrödinger type systems. (English summary) **99g:34036**
Busha, J. *see* **Airapetyan, R. G.; et al., (99k:65003)**
Camassa, Roberto *see* **Burtsev, S. P.; et al., 99g:34036**
Chetouani, Lyazid *see* **Dekar, Liès; et al., 99f:81038**
Clarkson, Peter A. (*with* Gordoa, Pilar R.; Pickering, Andrew) Multicomponent equations associated to non-isospectral scattering problems. (English summary) **99d:35136**
Dauer, Jerald P. *see* **Belinskiĭ, B. P.; et al., 99b:76079**
Deift, P. (*with* Kriecherbauer, Thomas; McLaughlin, K. T.-R.; Venakides, Stephanos; Zhou, Xin) Asymptotics for polynomials orthogonal with respect to varying exponential weights. **99g:34038**
Dekar, Liès (*with* Chetouani, Lyazid; Hammann, Théophile F.) An exactly soluble Schrödinger equation with smooth position-dependent mass. (English summary) **99f:81038**
Dong, Shi-Hai (*with* Hou, Xi-Wen; Ma, Zhong-Qi) Levinson's theorem for non-local interactions in two dimensions. (English summary) **99g:81035**
Ercolani, Nicholas M. (*with* Levermore, C. David; Zhang, Taiyan) The behavior of the Weyl function in the zero-dispersion KdV limit. (English summary) **99b:35182**
Fokas, A. S. Integrability: from d'Alembert to Lax. (English summary) **99b:35196**
— (*with* Menyuk, C. R.) Integrability and self-similarity in transient stimulated Raman scattering. (English summary) **99i:78024**
Gohberg, Israel *see* **Alpay, Daniel, 99a:34218** *and* **99m:34022**
Gordoa, Pilar R. *see* **Clarkson, Peter A.; et al., 99d:35136**
Hammann, Théophile F. *see* **Dekar, Liès; et al., 99f:81038**
Hou, Xi-Wen *see* **Dong, Shi-Hai; et al., 99g:81035**
Kaup, D. J. (*with* Lakoba, T. I.; Matsuno, Yoshimasa) Perturbation theory for the Benjamin-Ono equation. (English summary) **99k:35156**
Kitaev, A. V. (*with* Vartanian, A. H.) Leading-order temporal asymptotics of the modified nonlinear Schrödinger equation: solitonless sector. (English summary) **99g:35119**
Kriecherbauer, Thomas *see* **Deift, P.; et al., 99g:34038**
Kurasov, P. Energy dependent boundary conditions and the few-body scattering problem. (English summary) **99a:81189**
Lakoba, T. I. *see* **Kaup, D. J.; et al., 99k:35156**
Levermore, C. David *see* **Ercolani, Nicholas M.; et al., 99b:35182**
Ma, Zhong-Qi *see* **Dong, Shi-Hai; et al., 99g:81035**
Matsuno, Yoshimasa *see* **Kaup, D. J.; et al., 99k:35156**
McLaughlin, Joyce R. (*with* Sacks, Paul E.; Somasundaram, M.) Inverse scattering in acoustic media using interior transmission eigenvalues. **99b:35217**
McLaughlin, K. T.-R. *see* **Deift, P.; et al., 99g:34038**
Menyuk, C. R. *see* **Fokas, A. S., 99i:78024**
Miyazawa, Toru Algebraic approach to scattering theory of the Fokker-Planck equation. (English summary) **99g:82061**
Pham Loi Vu Explicit complex-valued solutions of the Korteweg-de Vries equation on the half-line and on the whole-line. (English summary) **99g:35021**
Pickering, Andrew *see* **Clarkson, Peter A.; et al., 99d:35136**
Ramm, Alexander G. Recovery of compactly supported spherically symmetric potentials from the phase shift of the S-wave. (English summary) **99d:81175**
— A new approach to the inverse scattering and spectral problems for the Sturm-Liouville equation. (English summary) **99k:34029**
— Recovery of quarkonium system from experimental data. (English summary) **99b:81264**
Rejto, Peter (*with* Taboada, Mario) A turning point problem arising in connection with a limiting absorption principle for Schrödinger operators with generalized von Neumann-Wigner potentials. **99f:35030**
Rybkin, A. V. On a trace formula of the Buslaev-Faddeev type for a long-range potential. (English summary) **99k:34188**
Sabatier, Pierre C. On local inverse transforms. (English summary) **99e:35204**
Sacks, Paul E. *see* **McLaughlin, Joyce R.; et al., 99b:35217**
Somasundaram, M. *see* **McLaughlin, Joyce R.; et al., 99b:35217**
Taboada, Mario *see* **Rejto, Peter, 99f:35030**
Timofeyev, I. *see* **Burtsev, S. P.; et al., 99g:34036**
Vartanian, A. H. *see* **Kitaev, A. V., 99g:35119**
Venakides, Stephanos The small dispersion KdV equation with decaying initial data. **99a:35230**
— *see also* **Deift, P.; et al., 99g:34038**
Weber, Thomas Anthony Nonlocal potentials, isolated states, and Levinson's theorem. (English summary) **99k:81330**
Weder, Ricardo Multidimensional inverse problems in perturbed stratified media. (English summary) **99k:76133**
Xu, Yongzhi *see* **Belinskiĭ, B. P.; et al., 99b:76079**
Zhang, Taiyan *see* **Ercolani, Nicholas M.; et al., 99b:35182**
Zhidkov, E. P. *see* **Airapetyan, R. G.; et al., (99k:65003)**
Zhou, Xin *see* **Deift, P.; et al., 99g:34038**

34L30 Nonlinear ordinary differential operators

Gohberg, Israel (*with* Kaashoek, M. A.; Sakhnovich, A. L.) Sturm-Liouville systems with rational Weyl functions: explicit formulas and applications. (English summary) **99m:34195**
Kaashoek, M. A. *see* **Gohberg, Israel; et al., 99m:34195**
Sakhnovich, A. L. *see* **Gohberg, Israel; et al., 99m:34195**

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Benguria, Rafael D. (*with* Depassier, M. Cristina) A variational method for nonlinear eigenvalue problems. (English summary) **99d:34030**
— (*with* Depassier, M. Cristina) Phase space derivation of a variational principle for one-dimensional Hamiltonian systems. (English summary) **99d:34031**
Choi, Q-Heung (*with* Jung, Tacksun) Fourth order differential equations with jumping nonlinearity. (English summary) **99c:34033**
Del Pino, Manuel (*with* Drábek, Pavel; Manásevich, Raúl) The Fredholm alternative at the first eigenvalue for the one-dimensional p-Laplacian. (English and French summaries) **99h:35053**
— (*with* Drábek, Pavel; Manásevich, Raúl) The Fredholm alternative at the first eigenvalue for the one-dimensional p-Laplacian. (English summary) **99m:34042**
Depassier, M. Cristina *see* **Benguria, Rafael D., 99d:34030** *and* **99d:34031**
Drábek, Pavel (*with* Takáč, Peter) A counterexample to the Fredholm alternative for the p-Laplacian. (English summary) **99h:34028**
— *see also* **Del Pino, Manuel; et al., 99h:35053** *and* **99m:34042**
Jung, Tacksun *see* **Choi, Q-Heung, 99c:34033**
Klokov, Yu. A. (*with* Sadyrbaev, F. Zh.) On the number of solutions of second-order boundary value problems with nonlinear asymptotics. (Russian. Russian summary) **99m:34036**
Manásevich, Raúl *see* **Del Pino, Manuel; et al., 99h:35053** *and* **99m:34042**
Mrziglod, Thomas On the solution structure of nonlinear Hill's equation. II. Local results. (English summary) **99g:34055**
O'Regan, Donal Singular Dirichlet boundary value problems. II. Resonance case. (English summary) **99e:34027**
Ruppen, Hans-Jörg Multiple TE-modes for planar, self-focusing wave guides. (English summary) **99f:35202**
Rynne, Bryan P. Global bifurcation in generic systems of nonlinear Sturm-Liouville problems. (English summary) **99f:34030**
Sadyrbaev, F. Zh. *see* **Klokov, Yu. A., 99m:34036**
Salvatori, M. Cesarina (*with* Vitillaro, Enzo) Decay and stability for some nonlinear quasi-variational systems. (English summary) **99h:34071**
Shibata, Tetsutaro Nonlinear multiparameter eigenvalue problems. **99a:34062**
— Variational eigencurve and bifurcation for two-parameter nonlinear Sturm-Liouville equations. **99g:34057**

— Multiparameter variational eigenvalue problems with indefinite nonlinearity. (English summary) **99c:34036**
— Asymptotic profiles of variational eigenvalues of two-parameter non-linear Sturm-Liouville problems. (English summary) **99m:34046**
Takáč, Peter *see* **Drábek, Pavel, 99h:34028**
Ushveridze, A. G. Quasi-exactly solvable models and W-algebras. (English summary) **99m:81084**
Vitillaro, Enzo *see* **Salvatori, M. Cesarina, 99h:34071**
Zhidkov, P. E. ★ Eigenfunction expansions associated with a nonlinear Schrödinger equation. (English and Russian summaries) **99f:34119**

34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

Abramovich, Shoshana Properties of ground states of some nondimensional Schrödinger equation and a comparison theorem. (English summary) **99g:34162**
Adygezalov, A. A. *see* **Baĭramogly, M., 99a:34228**
Aĭgunov, G. A. On a condition for the uniform boundedness of the set of normalized eigenfunctions of the Sturm-Liouville operator on a finite interval. (Russian. English and Russian summaries) **99i:34121**
— On the eigenfunctions of a class of Schrödinger operators with null range potential. (Russian. English and Russian summaries) **99j:34125**
— On the spectrum of a class of one-dimensional operators of Schrödinger type with generalized potential. (Russian) **99e:34125**
— On the boundedness of orthonormal eigenfunctions of an operator in a Sturm-Liouville class with a bounded weight function of unbounded variation on a finite segment. (Russian. English and Russian summaries) **99e:34126**
Albeverio, Sergio (*with* Dąbrowski, Ludwik; Kurasov, P.) Symmetries of Schrödinger operators with point interactions. (English summary) **99f:34121**
Aleksandrova, E. V. (*with* Bochkareva, O. V.; Podol′skiĭ, V. E.) Summation of regularized traces of the singular Sturm-Liouville operator. (Russian. Russian summary) **99c:34197**
Amirov, R. Kh. (*with* Çakmak, Y.) Trace formula for the Sturm-Liouville operator with singularity. (English summary) **99g:34163**
Baĭramogly, M. (*with* Adygezalov, A. A.) On a regularized trace formula for the Sturm-Liouville operator with a bounded operator coefficient and with a singularity. (Russian. Russian summary) **99a:34228**
Bochkareva, O. V. *see* **Aleksandrova, E. V.; et al., 99c:34197**
Boumenir, Amin Inverse spectral problem for the Laguerre differential operator. (English summary) **99g:34164**
Brown, B. Malcolm (*with* Eastham, Michael S. P.; McCormack, Daniel K. R.) Absolute continuity and spectral concentration for slowly decaying potentials. (English summary) **99g:34165**
— (*with* Eastham, Michael S. P.; Hinz, Andreas M.; Kriecherbauer, Thomas; McCormack, Daniel K. R.; Schmidt, Karl Michael) Welsh eigenvalues of radially periodic Schrödinger operators. **99m:34196**
— (*with* Eastham, Michael S. P.; McCormack, Daniel K. R.; Plum, Michael) On a new algorithm for the computation of enclosures for the Titchmarsh-Weyl m-function. **99b:34138**
Brown, Malcolm (*with* Greenberg, Leon; Marletta, Marco) Convergence of regular approximations to the spectra of singular fourth-order Sturm-Liouville problems. (English summary) **99h:34122**
Buslaev, Vladimir (*with* Grigis, Alain) Imaginary parts of Stark-Wannier resonances. (English summary) **99d:34164**
Çakmak, Y. *see* **Amirov, R. Kh., 99g:34163**
Christ, Michael (*with* Kiselev, Alexander; Remling, Christian) The absolutely continuous spectrum of one-dimensional Schrödinger operators with decaying potentials. **99b:34139**
— (*with* Kiselev, Alexander) Absolutely continuous spectrum for one-dimensional Schrödinger operators with slowly decaying potentials: some optimal results. (English summary) **99g:34166**
Constantin, Adrian On the inverse spectral problem for the Camassa-Holm equation. (English summary) **99c:34198**
Dąbrowski, Ludwik *see* **Albeverio, Sergio; et al., 99f:34121**
Davies, E. B. Semi-classical states for non-self-adjoint Schrödinger operators. (English summary) **99m:34197**
Eastham, Michael S. P. On the location of spectral concentration for Sturm-Liouville problems with rapidly decaying potential. **99e:34127**
— *see also* **Brown, B. Malcolm; et al., 99b:34138; 99g:34165** *and* **99m:34196**
Greenberg, Leon *see* **Brown, Malcolm; et al., 99h:34122**
Grigis, Alain Points tournants et résonances de Stark-Wannier. [Turning points and Stark-Wannier resonances] **99h:34123**
— *see also* **Buslaev, Vladimir, 99d:34164**
Guseinov, G. Sh. *see* **Yaslan, I., 99c:34201**
Harris, B. J. The form of the spectral functions associated with Sturm-Liouville equations with large negative potential. **99f:34122**
Hinz, Andreas M. *see* **Brown, B. Malcolm; et al., 99m:34196**
Hughes, Rhonda J. Generalized Kronig-Penney Hamiltonians. (English summary) **99d:34165**
Khristov, E. Kh. On the Λ-operators associated with two Sturm-Liouville problems on the semi-axis. (English summary) **99c:34199**
Kiselev, Alexander (*with* Last, Yoram; Simon, Barry) Modified Prüfer and EFGP transforms and the spectral analysis of one-dimensional Schrödinger operators. (English summary) **99g:34167**
— Stability of the absolutely continuous spectrum of the Schrödinger equation under slowly decaying perturbations and a.e. convergence of integral operators. **99h:34124**
— *see also* **Christ, Michael; et al., 99b:34139** *and* **99g:34166**
Korotyaev, E. L. Estimates of periodic potentials in terms of gap lengths. (English summary) **99h:34125**
Kriecherbauer, Thomas *see* **Brown, B. Malcolm; et al., 99m:34196**
Kritskov, L. V. On the ordered spectral representation of the space $L_2(\mathbf{R})$ with respect to the Stark-effect Hamiltonian of regular type. II. (Russian. Russian summary) **99b:34140**
— A lower bound for the Fourier images in the system of fundamental functions of the one-dimensional Schrödinger operator with a summable potential. (Russian. Russian summary) **99j:34126**
Kurasov, P. *see* **Albeverio, Sergio; et al., 99f:34121**
Last, Yoram *see* **Kiselev, Alexander; et al., 99g:34167**
Levitan, B. M. Inverse problem on the entire line and some connected questions of spectral theory. (English summary) **99a:34229**
Lu, Sheng Guan An oscillation theorem for eigenvalues of the periodic problem for a Dirac equation. (Chinese. English and Chinese summaries) **99k:34187**
Marletta, Marco *see* **Brown, Malcolm; et al., 99h:34122**
McCormack, Daniel K. R. *see* **Brown, B. Malcolm; et al., 99b:34138; 99g:34165** *and* **99m:34196**
Ovcharenko, I. E. On orthogonal systems generated by the Schrödinger equation. (Russian) **99c:34200**
Pechentsov, A. S. (*with* Popov, A. Yu.) Asymptotic behavior of spectral functions of the differential operators $-y'' - \varepsilon x^2 y$. (Russian) **99d:34166**
Pivovarchik, V. N. On the spectra of small oscillations of a string in the presence of viscous friction on one end. (Russian) **99j:34127**
Plum, Michael *see* **Brown, B. Malcolm; et al., 99b:34138**
Podol′skiĭ, V. E. *see* **Aleksandrova, E. V.; et al., 99c:34197**
Popov, A. Yu. *see* **Pechentsov, A. S., 99d:34166**
Remling, Christian The absolutely continuous spectrum of one-dimensional Schrödinger operators with decaying potentials. (English summary) **99f:34123**
— Embedded singular continuous spectrum for one-dimensional Schrödinger operators. (English summary) **99j:34128**
— *see also* **Christ, Michael; et al., 99b:34139**
Rybkin, A. V. On a trace formula of the Buslaev-Faddeev type for a long-range potential. (English summary) **99k:34188**
Schmidt, Karl Michael *see* **Brown, B. Malcolm; et al., 99m:34196**
Shi, Qin Chun The spectral property for a class of Dirac eigenvalue problems. (Chinese. English and Chinese summaries)
Shkalikov, A. A. On the limit behavior of the spectrum for large values of the parameter of a model problem. (Russian) **99h:34126**
Simon, Barry *see* **Kiselev, Alexander; et al., 99g:34167**
Teschl, Gerald Deforming the point spectra of one-dimensional Dirac operators. (English summary) **99a:34230**
Watanabe, Kazuo[1] Note on the spectral concentration for the Schrödinger operator with point interaction. (English summary) **99f:34124**
Weikard, Rudi On second order linear differential equations with inverse square singularities. (English summary) **99k:34189**
— On a theorem of Hochstadt. **99e:34128**
— On Hill's equation with a singular complex-valued potential. **99e:34129**
Yaslan, I. (*with* Guseinov, G. Sh.) On Hill's equation with piecewise constant coefficient. (English summary) **99c:34201**

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Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, C. V. M.) Wave scattering in 1-D nonconservative media. (English summary) **99d:34163**
— (*with* Klaus, Martin; van der Mee, C. V. M.) Inverse scattering in one-dimensional nonconservative media. (English summary) **99b:34136**
— (*with* Klaus, Martin; van der Mee, C. V. M.) Wave scattering in one dimension with absorption. (English summary) **99b:34137**
Albeverio, Sergio (*with* Kurasov, P.) Finite rank perturbations and distribution theory. (English summary) **99m:47012**
Aleksandrova, E. V. A trace formula for the equation of the oscillations of an elastic rod. (Russian) **99a:34217**
Allakhverdiev, B. P. On selfadjoint and nonselfadjoint extensions of a Schrödinger-type symmetric operator with a matrix potential. (Russian. English and Azerbaijani summaries) **99j:47067**
Alonso, Vidal (*with* De Vincenzo, Salvatore) General boundary conditions for a Dirac particle in a box and their non-relativistic limits. (English summary) **99d:81029**
Amer, Y. A. *see* **Mohamed, Adel Samy, 99d:47043**
Amirov, R. Kh. (*with* Gülyaz, S.) Inverse spectral problem for the differential equation of the second order with singularity. (English summary) **99g:34037**
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35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bassanini, Piero (*with* Elcrat, Alan R.) ★ Theory and applications of partial differential equations. (English summary) **99h:35001**
Betounes, David ★ Partial differential equations for computational science. (English summary) **99g:35001**
Cooper, Jeffery ★ Introduction to partial differential equations with MATLAB. (English summary) **99a:35001**
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Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. (English summary) **99k:65001**
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35–02 Research exposition (monographs, survey articles)

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Neuberger, J. W. ★ Sobolev gradients and differential equations. **99g:35003**
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35Axx General theory

Tutschke, Wolfgang ★ Inhomogeneous equations in complex analysis. **99h:35004**

35A05 General existence and uniqueness theorems

Bergamasco, Adalberto P. (*with* Petronilho, Gerson) Closedness of the range for vector fields on the torus. (English summary) **99m:35006**
Petronilho, Gerson *see* **Bergamasco, Adalberto P., 99m:35006**
Schwartz, Laurent Sur un deuxième mémoire de Petrowsky: "Über das Cauchysche Problem für Systeme von partiellen Differentialgleichungen". [On a second memoir of Petrovskiĭ: "On the Cauchy problem for systems of partial differential equations"] (*see* **99f:00033**)
— Sur un mémoire de Petrowsky: "Über das Cauchysche Problem für ein System linearer partieller Differentialgleichungen im Gebiete der nichtanalytischen Funktionen". [On a memoir of Petrovskiĭ: "On the Cauchy problem for a system of linear partial differential equations in the realm of nonanalytic functions"] (*see* **99f:00033**)

Items with secondary classifications in 35A05

Andryan, A. A. Boundary value problems in a strip in classes of polynomial growth. (Russian. English and Russian summaries) **99f:35018**
Dzhabrailov, M. S. On the coercive solvability of operator-differential equations in Besov-type spaces. (Russian) **99m:35257**
Gallo, Angela A Cauchy problem related to a second order non-linear evolutive system. (English summary) **99m:34135**
Gerasimov, Yu. K. Generalization of the Hörmander inequality and the uniqueness of the solution of the Cauchy problem for linear partial differential equations with multiple characteristics. (Russian. Russian summary) **99j:35022**
Kurbonov, O. T. On the solvability of the Cauchy problem for an odd-order equation with multiple characteristics. (Russian. English and Uzbek summaries)
Leray, Jean Le problème de Cauchy dans le cas analytique linéaire. [The Cauchy problem in the linear analytic case] (*see* **99f:00037**)
Titov, S. S. On the Cauchy problem in Banach scales with compact embeddings. (Russian. Russian summary) **99f:34094**

35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Brezis, Haïm (*with* Cabré, Xavier) Some simple nonlinear PDE's without solutions. (Italian summary) **99j:35001**
Cabré, Xavier *see* **Brezis, Haïm, 99j:35001**
Cordaro, Paulo D. (*with* Trépreau, Jean-Marie) On the solvability of linear partial differential equations in spaces of hyperfunctions. **99d:35006**

Gramchev, Todor (*with* Rodino, Luigi) Gevrey solvability for semilinear partial differential equations. (English summary) **99i:35003**
Malgrange, Bernard Équations différentielles sans solutions (d'après Lars Hörmander). [Differential equations with no solutions (after Lars Hörmander)] (*see* **99f:00038**)
Rodino, Luigi *see* **Gramchev, Todor, 99i:35003**
Tarama, Shigeo Remarks on L^2-wellposed Cauchy problem for some dispersive equations. **99f:35006**
Trépreau, Jean-Marie *see* **Cordaro, Paulo D., 99d:35006**
Tulovsky, Vladimir On an interpretation of Hörmander's condition of local solvability. (English summary) **99d:35007**

Items with secondary classifications in 35A07

Chrzęszczyk, Andrzej Non-smooth hyperbolic mixed problems of the second order. **99b:35142**
Runst, Thomas (*with* Youssfi, Abdellah) The Jacobian-determinant equation on Besov and Triebel-Lizorkin spaces. (English summary) **99c:46029**
Youssfi, Abdellah *see* **Runst, Thomas, 99c:46029**

35A08 Fundamental solutions

Abdinazarov, S. On fundamental solutions of a nonclassical equation. (Russian. English and Uzbek summaries)
Barański, Feliks (*with* Koroński, Jan) Some remarks on Green functions and effective constructions of solutions to limit problems for differential equations. (Polish. English, German and Polish summaries)
Beals, Richard William Solutions fondamentales exactes. (English summary) [Exact fundamental solutions] (*see* **99d:35002**)
— A note on fundamental solutions. **99m:35007**
D'Acunto, Berardino (*with* De Angelis, Monica; Renno, Pasquale) Fundamental solution of a dissipative operator. (English and Italian summaries) **99e:35003**
De Angelis, Monica *see* **D'Acunto, Berardino; et al., 99e:35003**
He, Chun Xiong *see* **Yu, Jian Ning, 99j:35002**
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Uchikoshi, Keisuke Stokes operators for microhyperbolic equations. (English summary) **99m:35008**
Yajima, Kenji Boundedness and continuity of the fundamental solution of the time dependent Schrödinger equation with singular potentials. (English summary) **99k:35004**
Yu, Jian Ning (*with* He, Chun Xiong) Explicit fundamental solutions for a class of nonhomogeneous invariant differential operators on the Heisenberg group H_{2n+1}. (Chinese. English and Chinese summaries) **99j:35002**

Items with secondary classifications in 35A08

Agliardi, R. (*with* Mari, D.) On the Cauchy problem for some non-Kowalewskian equations in $\mathscr{D}'^{\{\sigma\}}_{L^2}$. (English summary) **99b:35226**
Akishin, P. G. (*with* Vinitskiĭ, S. I.) Green function method for plane periodical Helmholtz problem. (English summary) (*see* **99m:81006**)
Beals, Richard William (*with* Gaveau, Bernard; Greiner, Peter C.) Uniforms hypoelliptic Green's functions. (English and French summaries) **99e:35024**
Branson, Thomas (*with* Ólafsson, Gestur) Asymptotics of the d'Alembertian with potential on a pseudo-Riemannian manifold. (English summary) **99h:58189**
Chen, Zhen-Qing (*with* Qian, Zhongmin; Hu, Yao Zhong; Zheng, Weian) Stability and approximations of symmetric diffusion semigroups and kernels. (English summary) **99f:60139**
Clements, David L. Fundamental solutions for second order linear elliptic partial differential equations. (English summary)
Fujiwara, Daisuke (*with* Tsuchida, Tetsuo) The time slicing approximation of the fundamental solution for the Schrödinger equation with electromagnetic fields. **99b:35029**
Gaveau, Bernard *see* **Beals, Richard William; et al., 99e:35024**
Greiner, Peter C. *see* **Beals, Richard William; et al., 99e:35024**
Hill, Adrian T. Estimates on the Green's function of second-order elliptic operators in $\mathbf{R}^N$. (English summary) **99i:35021**
Hu, Han Ping A general purpose Green function and Green function solutions to heat conduction problems. (Chinese. English and Chinese summaries)
Hu, Yao Zhong *see* **Chen, Zhen-Qing; et al., 99f:60139**
Ikeda, Nobuyuki (*with* Kusuoka, Shigeo) Short time asymptotics for fundamental solutions of heat equations with boundary conditions. (English summary) **99k:35076**
Krylov, George (*with* Robnik, Marko) On the Green function of linear evolution equations for a region with a boundary. (English summary)
Kusuoka, Shigeo *see* **Ikeda, Nobuyuki, 99k:35076**
Mari, D. *see* **Agliardi, R., 99b:35226**
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Ramm, Alexander G. Fundamental solutions to some elliptic equations with discontinuous senior coefficients and an inequality for these solutions. (English summary) **99b:35034**
Robnik, Marko *see* **Krylov, George**
Schwartz, Laurent Solution élémentaire d'une équation aux dérivées partielles à coefficients constants (d'après B. Malgrange). [Elementary solution of a partial differential equation with constant coefficients (after B. Malgrange)] (*see* **99f:00034**)
Shatalov, V. E. *see* **Sternin, Boris Yu., 99f:58185**
Sternin, Boris Yu. (*with* Shatalov, V. E.) Analytic continuation of fundamental solutions of elliptic equations. (Russian. Russian summary) **99f:58185**
Tsuchida, Tetsuo *see* **Fujiwara, Daisuke, 99b:35029**
Vinitskiĭ, S. I. *see* **Akishin, P. G., (99m:81006)**
Yajima, Kenji On fundamental solution of time dependent Schrödinger equations. (English summary) **99d:35035**
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35A10 Cauchy-Kovalevskaya theorems

Items with secondary classifications in 35A10

Dzhabrailov, M. S. On the coercive solvability of operator-differential equations in abstract Besov spaces. (Russian. English and Azerbaijani summaries) **99k:34128**
Ghisi, Marina The Cauchy-Kovalevsky theorem and noncompactness measures. (English summary) **99h:34084**
Hamada, Yûsaku Une remarque sur le domaine d'existence de la solution du problème de Cauchy pour l'opérateur différentiel à coefficients des fonctions entières. (English and French summaries) [A remark on the domain of existence of the solution of the Cauchy problem for a differential operator whose coefficients are entire functions] **99a:35007**
Ishimura, R. The Cauchy-Kowalevski theorem for $\mathscr{E}$-modules. (English and French summaries) **99i:32015**
Kinoshita, Tamotu On the wellposedness in the ultradifferentiable classes of the Cauchy problem for a weakly hyperbolic equation of second order. **99i:35089**
Pongérard, Patrice (*with* Wagschal, Claude) Ramification non abélienne. (English and French summaries) [Nonabelian ramification] **99d:35010**
Robbiano, Luc (*with* Zuily, Claude) Uniqueness in the Cauchy problem for operators with partially holomorphic coefficients. **99e:35004**
Wagschal, Claude *see* **Pongérard, Patrice, 99d:35010**
Zuily, Claude *see* **Robbiano, Luc, 99e:35004**

35A15 Variational methods

Savaré, Giuseppe (*with* Tomarelli, Franco) Superposition and chain rule for bounded Hessian functions. (English summary) **99k:35005**
Tomarelli, Franco *see* **Savaré, Giuseppe, 99k:35005**

Items with secondary classifications in 35A15

Chabrowski, Jan Elliptic variational problems with indefinite nonlinearities. **99b:35052**
Costa, David G. Multiple solutions for a class of strongly indefinite problems. (English and Portuguese summaries) **99j:35019**
Feireisl, Eduard Finite energy travelling waves for nonlinear damped wave equations. **99a:35180**
He, Ji Huan Variational approach to a strictly hyperbolic system of conservation laws with singularity. (English summary)
Rubinstein, Jacob (*with* Schatzman, Michelle) Spectral and variational problems on multiconnected strips. (English and French summaries) **99b:35194**
Schatzman, Michelle *see* **Rubinstein, Jacob, 99b:35194**
Våge, Gjermund Variational methods for PDEs applied to stochastic partial differential equations. **99j:60129**

35A20 Analytic methods, singularities

Boiti, Chiara (*with* Nacinovich, Mauro) Extension of formal power series solutions. **99k:35006**
Bougrini, H. (*with* Piriou, Alain; Varenne, J. P.) Propagation et interaction des symboles principaux pour les ondes conormales semi-linéaires. [Propagation and interaction of principal symbols for semilinear conormal waves] **99c:35003**
Buslyuk, D. V. Construction of the last multiplier of a system of partial differential equations on admissible operators. (Russian. English and Russian summaries) **99m:35009**
Çelebi, A. Okay *see* **Sengül, Sare, 99j:35004**
Dorschfeldt, Christoph (*with* Tarkhanov, Nikolai N.) Golubev series for solutions of elliptic equations. (English summary) **99d:35008**
Gérard, Raymond (*with* Tahara, Hidetoshi) Holomorphic and singular solutions of non-linear singular partial differential equations. II. **99a:35006**
— (*with* Tahara, Hidetoshi) Formal power series solutions of nonlinear first order partial differential equations. **99d:35009**
Hamada, Yûsaku Une remarque sur le domaine d'existence de la solution du problème de Cauchy pour l'opérateur différentiel à coefficients des fonctions entières. (English and French summaries) [A remark on the domain of existence of the solution of the Cauchy problem for a differential operator whose coefficients are entire functions] **99a:35007**
— Sur un prolongement analytique de la solution du problème de Cauchy dont les données de Cauchy ont des singularités polaires. [On an analytic continuation of the solution of the Cauchy problem whose Cauchy data have polar singularities] **99m:35010**
Igari, Katsuju Propagation of singularities of solutions to Cauchy problems in the complex domain. (Japanese) (*see* **99e:35002**)
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Ôkaji, Takashi Symmetric structure and the propagation of singularities of solutions to partial differential equations. (Japanese) (*see* **99m:35003**)

Ōuchi, Sunao Growth order and asymptotic behaviour of singular solutions of linear partial differential equations in the complex domain. (English summary) (*see* **99g:00040**)
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— Growth properties and asymptotic expansions of singular solutions of linear partial differential equations in the complex domain. (Japanese) (*see* **99e:35002**)
Ouyang, Cai Heng (*with* Liang, You Ming) A remark on the Folland-Stein theorem for the Heisenberg group. (Chinese. English and Chinese summaries) **99m:35011**
Piriou, Alain *see* **Bougrini, H.; et al., 99c:35003**
Pongérard, Patrice (*with* Wagschal, Claude) Ramification non abélienne. (English and French summaries) [Nonabelian ramification] **99d:35010**
Reissig, Michael (*with* Timofeev, A. Yu.) Leray-Volevich conditions for systems of evolution equations basing on the generalized derivative in the sense of Gelfond-Leontjev. (English summary)
Robbiano, Luc (*with* Zuily, Claude) Uniqueness in the Cauchy problem for operators with partially holomorphic coefficients. **99e:35004**
Rosay, Jean-Pierre A simple proof of uniqueness for perturbations of the Mizohata operator. (*see* **99e:32002**)
Sengül, Sare (*with* Çelebi, A. Okay) On Riemann functions for complex differential equations. (English summary) **99j:35004**
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Tsuji, Mikio Geometric approach to blow-up phenomena in non-linear problems. **99c:35006**
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Yamane, Hideshi Singularities in Fuchsian Cauchy problems with holomorphic data. (English summary) **99h:35005**
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Yamazawa, Hiroshi Newton polyhedrons and a formal Gevrey space of double indices for linear partial differential operators. (English summary) (*see* **99e:35002**)
Zhang, Changgui Sur un théorème du type de Maillet-Malgrange pour les équations q-différences-différentielles. (English and French summaries) [A Maillet-Malgrange theorem for q-difference-differential equations] **99j:35005**
Zhao, Zhen[1] The Schwarz problem for a class of complex third-order partial differential equations. (Chinese. English and Chinese summaries) **99e:35005**
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Arai, Hitoshi Harmonic analysis of singular elliptic operators and invariant potential theory. (Japanese) (*see* **99a:00036**)
Beauzamy, Bernard Extremal products in Bombieri's norm. (English summary) **99a:11028**
Begehr, Heinrich G. W. (*with* Dzhuraev, Abdukhamid Dzhuraevich) ★ An introduction to several complex variables and partial differential equations. (English summary) **99g:32001**
Boutet de Monvel, Louis On the holonomic character of the elementary solution of a partial differential operator. (English summary) **99j:58192**
Bratti, G. On a noteworthy differential operator in the algebra of holonomic modules. (Italian. English and Italian summaries) **99c:16023**
Brezis, Haïm (*with* Nirenberg, Louis) Removable singularities for nonlinear elliptic equations. **99a:35082**
Çelebi, A. Okay *see* **Yüksel, Uğur, 99m:30096**
Christ, Michael (*with* Li, Song-Ying) On analytic solvability and hypoellipticity for $\overline{\partial}$ and $\overline{\partial}_b$. **99c:32021**
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Dubinskiĭ, Yu. A. (*with* Osipenko, A. S.) On the "orthogonal" decomposition of Sobolev spaces into a sum of analytic and coanalytic subspaces. (Russian) **99j:46035**
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Sasayama, Hiroyoshi Generalized Cauchy-Riemann equations and power series in non-commutative hypercomplex n-tuple spaces. (English summary) **99k:30078**
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Shananin, N. A. Singularities of solutions of a linearized system of Navier-Stokes equations. (Russian)
Shapiro, Harold S. *see* **Ebenfelt, Peter; et al., 99e:42041** *and* **99j:35014**
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Yoshino, Masafumi Small divisor problems and divergent formal power series solutions. **99g:35023**
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35A22 Transform methods (e.g. integral transforms)

Items with secondary classifications in 35A22

Ashino, Ryuichi (*with* Nagase, Michihiro; Vaillancourt, Rémi) Gabor, wavelet and chirplet transforms in the study of pseudodifferential operators. (English summary) **99f:35237**
Fujita, Keiko (*with* Morimoto, Mitsuo) Spherical Fourier-Borel transformation. **99k:32002**
Morimoto, Mitsuo The Poisson kernel and the Cauchy kernel. **99k:32006**
— *see also* **Fujita, Keiko, 99k:32002**
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Ofman, Salomon Solutions of differential equations systems in integral geometry. (French summary) **99e:53109**
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Walz, Guido Splines with free knots, the heat equation, and the Gauss transform. (English summary) **99h:41017**

35A25 Other special methods

Abramov, V. S. (*with* Abramova, O. P.) A problem of Cauchy type for a fractal string. (English summary)
Abramova, O. P. *see* **Abramov, V. S.**
Agrafiotou, X. Methods for solving some systems of linear PDE's. (English and Romanian summaries)
Beauzamy, Bernard Stability of the solutions of differential equations. (English summary) **99j:35006**
Boĭko, V. K. (*with* Fushchich, Vīl′gel′m Īllīch) Lowering of order and general solutions of some classes of partial differential equations. (English summary)
Carrà Ferro, Giuseppa Triangular matrices, differential resultants and systems of linear homogeneous PDEs. (English summary) **99i:35004**
Ermolaev, E. A. (*with* Zhestkov, S. V.; Kuvshinov, V. I.) Classes of exactly solvable degenerate systems of universal nonlinear partial differential equations. (Russian. Russian summary) **99d:35011**
Fushchich, Vīl′gel′m Īllīch *see* **Boĭko, V. K.**
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Gonzalez, Eduardo H. A. (*with* Massari, U.; Miranda, Mario) On minimal cones. (English summary) **99m:35012**
Hereman, Willy *see* **Göktaş, Ünal, (99h:00031)**
Kim, Yong-Jihn (*with* Kwon, Kil Hyun; Lee, Jeong Keun) Partial differential equations having orthogonal polynomial solutions. (English summary) **99j:35007**
Kuvshinov, V. I. *see* **Ermolaev, E. A.; et al., 99d:35011**
Kwon, Kil Hyun *see* **Kim, Yong-Jihn; et al., 99j:35007**
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Tsegel′nik, V. V. Self-similar solutions of some systems of nonlinear partial differential equations. (Russian. English and Russian summaries)
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Abdel-Gawad, H. I. An approach to solutions of systems of linear partial differential equations with applications. (English summary) **99e:35019**
Ameduri, Marco (*with* Efthimiou, Costas J.) Is the classical Bukhvostov-Lipatov model integrable? A Painlevé analysis. (English summary) **99c:35244**
Can, M. *see* **Mamedov, Y. A., 99d:35134**
Casas, F. Solving partial differential equations by Lie algebraic methods. (*see* **99g:00036**)
Efthimiou, Costas J. *see* **Ameduri, Marco, 99c:35244**
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Flavin, James N. The method of cross-sectional integrals for P.D.E.s. **99f:35013**
Fokas, A. S. Lax pairs and a new spectral method for linear and integrable nonlinear PDEs. (English summary) **99e:65136**

Govda, Yu. Ĭ. On energy spaces of a positive-definite operator. (Ukrainian. English and Russian summaries)
Ha Huy Bang Theorems of Paley-Wiener-Schwartz type. (Russian) **99g:35025**
Hood, Simon On using materially conserved quantities to construct solutions of differential equations. (English summary) **99d:76083**
Kakuhata, Hiroshi (*with* Konno, Kimiaki) Bilinearization of combined nondispersive equations. (Japanese) (*see* **99f:76003**)
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Korzyuk, V. I. The method of energy inequalities and of averaging operators. (Russian. English and Russian summaries) **99c:35136**
Leble, Sergei B. Elementary and binary Darboux transformations at rings. (English summary) **99c:35235**
Lefebvre, Mario Moment generating functions of first hitting times for the bidimensional geometric Brownian motion. (English summary) **99c:60185**
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Mamedov, Y. A. (*with* Can, M.) Application of the residue method to a mixed problem. (English and Turkish summaries) **99d:35134**
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35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [see also 32C38, 58G07]

Bernardi, Enrico (*with* Bove, Antonio) Geometric transition for a class of hyperbolic operators with double characteristics. **99c:35007**
Bove, Antonio *see* **Bernardi, Enrico, 99c:35007**
Đapić, N. (*with* Pilipović, Stevan S.; Scarpalézos, D.) Microlocal analysis of Colombeau's generalized functions: propagation of singularities. (English summary) **99k:35007**
Lascar, Bernard (*with* Lascar, Richard) FBI transforms in Gevrey classes. (English summary) **99j:35008**
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Taylor, Michael E. Microlocal analysis on Morrey spaces. **99a:35010**
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Burq, Nicolas Mesures semi-classiques et mesures de défaut. (French summary) [Semiclassical measures and defect measures] **99f:35011**
Craig, Walter Les moments microlocaux et la régularité des solutions de l'équation de Schrödinger. [Microlocal moments and regularity of the solutions of the Schrödinger equation] **99f:35028b**
— Microlocal moments and regularity of solutions of Schrödinger's equation. (English summary) **99f:35028a**
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Gramchev, Todor (*with* Rodino, Luigi) Gevrey solvability for semilinear partial differential equations. (English summary) **99i:35003**
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Holschneider, Matthias Some directional microlocal classes defined using wavelet transforms. (English summary) **99k:42059**
Houzel, Christian Historie de la théorie des faisceaux. (English and French summaries) [History of the theory of sheaves] **99i:01027**
Ishimura, R. The Cauchy-Kowalevski theorem for $\mathscr{E}$-modules. (English and French summaries) **99i:32015**
Ivriĭ, V. Ya. ★ Microlocal analysis and precise spectral asymptotics. (English summary) **99e:58193**
ten Kroode, A. P. E. (*with* Smit, D.-J.; Verdel, A. R.) A microlocal analysis of migration. (English summary) **99j:73046**
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Oaku, Toshinori (*with* Yamazaki, Susumu) Higher-codimensional boundary value problems and F-mild microfunctions—local and microlocal uniqueness. (English summary) **99k:58169**
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Sjöstrand, Johannes A trace formula and review of some estimates for resonances. (English summary) **99e:47064**
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Yin, Hui Cheng Energy densities of semilinear wave equations with oscillatory initial data. (English summary) **99c:35169**

35A30 Geometric theory, characteristics, transformations [see also 58G35, 58G37]

Abd-el-Malek, Mina B. Application of the group-theoretical method to physical problems. (English summary) **99d:35012**
— *see also* **Boutros, Y. Z.; et al., (99b:00027)**
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Basarab-Horwath, Peter (*with* Fushchich, Vĭl'gel'm Ĭlĭich) Implicit and parabolic ansatzes: some new ansatzes for old equations. (English summary) **99c:35008**
Bekbaev, U. D. On invariants of second order linear partial differential equations in two variables: relative to transformations of variables and unknown. **99h:35006**
— On the equivalence and differential rational invariants of second-order linear partial differential equations of two variables under a change of variables. (Russian. Russian summary)
Beukers, Frits (*with* Sanders, Jan A.; Wang, Jing Ping) One symmetry does not imply integrability. (English summary) **99i:35005**
Boutros, Y. Z. (*with* Abd-el-Malek, Mina B.; El-Awadi, I. A.; El-Mansi, S. M. A.) Group method analysis of the potential equation in triangular regions. (English summary) (*see* **99b:00027**)
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Buckwar, Evelyn (*with* Luchko, Yurii F.) Invariance of a partial differential equation of fractional order under the Lie group of scaling transformations. (English summary) **99h:35007**
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Davydov, Alekseĭ Aleksandrovich (*with* Rosales Gonsales, Ėrnesto) Smooth normal forms of folded resonance saddles and nodes and complete classification of generic linear second order PDE's on the plane. (English summary) **99g:35009**
Díaz Moreno, José Manuel On the structure of the symmetry operators of linear PDEs. (Spanish. Spanish summary) (*see* **99d:00018**)
Doyle, P. W. Characteristic solutions of scalar Newton equations in one space dimension. (English summary) **99c:35009**
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Estévez, P. G. (*with* Gordoa, Pilar R.) Non-classical symmetries and the singular manifold method: a further two examples. (English summary) **99k:35009**
Euler, Marianna (*with* Euler, Norbert) Symmetries for a class of explicitly space- and time-dependent $(1+1)$-dimensional wave equations. (English summary) **99c:35010**
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Florian, Helmut (*with* Püngel, J.; Tutschke, Wolfgang) Matrix differential transformations. (English summary) **99m:35014**
Fushchich, Vĭl'gel'm Ĭlĭich (*with* Barannyk, Lyudmyla L.) Symmetry reduction on subalgebras of the Poincaré algebra of a nonlinear system of differential equations of a vector field. (Ukrainian. English summary) **99k:35010**
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Gazizov, R. K. (*with* Ibragimov, N. Kh.) Lie symmetry analysis of differential equations in finance. (English summary) **99m:35015**
Goard, Joanna M. (*with* Broadbridge, Philip) Nonlinear superposition principles obtained by Lie symmetry methods. **99j:35009**
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Izobov, N. A. Linear Pfaff systems with the lower characteristic vectors' set of positive Lebesgue measure.

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Kingston, J. G. (*with* Sophocleous, Christodoulos) On form-preserving point transformations of partial differential equations. (English summary) **99g:35010**

Krasil'shchik, I. S. Characteristics of linear differential operators over commutative algebras. (English summary) **99b:35002**

Kuwamura, Masataka A case study on the reduction theory of non-linear PDE. (English summary) (*see* **99f:00026**)

Lei, Hin-Chi Group splitting and linearization mapping of a solvable non-linear wave equation. (English summary) **99a:35011**

Liu, Qing Ping[1] (*with* Mañas, Manuel) Sequences of Levy transformations and multi-Wrońki determinant solutions of the Darboux system. (English summary) **99g:35011**

Luchko, Yurii F. (*with* Gorenflo, Rudolf) Scale-invariant solutions of a partial differential equation of fractional order. (English summary) **99i:35006**

— *see also* **Buckwar, Evelyn, 99h:35007**

Mañas, Manuel *see* **Liu, Qing Ping[1], 99g:35011**

Marti, Jean-André (*with* Nuiro, Silvère Paul; Valmorin, Vincent) Algèbres différentielles et problème de Goursat non linéaire à données irrégulières. (English and French summaries) [Differential algebras and nonlinear Goursat problem with irregular data] **99k:35012**

Nuiro, Silvère Paul *see* **Marti, Jean-André; et al., 99k:35012**

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Rodríguez, Miguel Angel[2] Symmetries of differential equations. (English summary) **99k:35013**

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Rosenhaus, V. (*with* Katzin, Gerald H.) Noether operator relation and conservation laws for partial differential equations. (English summary) **99c:35011**

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Semenov, K. V. On the geometry of a third-order evolution equation. (Russian) **99j:35010**

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Tanriver, U. (*with* Choudhury, S. Roy) Non-classical symmetries and the singular manifold method revisited. (English summary) **99a:35012**

Topuriya, S. B. Generalized spherical derivatives and boundary value problems. (English summary) **99h:35008**

— Generalized partial derivatives of functions of many variables and boundary value problems. (English summary) **99h:35009**

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Tutschke, Wolfgang *see* **Florian, Helmut; et al., 99m:35014**

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Venero Goñi, P. Potential symmetries of the backward Kolmogorov equation. (Spanish. Spanish summary) (*see* **99d:00018**)

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Zhang, Hong Qing[1] (*with* Chao, Lu; Tang, Li Min) Taylor polynomial stepwise refinement algorithm for Lie and high symmetries of partial differential equations. (Chinese. English and Chinese summaries) **99c:35013**

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Alfinito, E. (*with* Causo, M. S.; Profilo, Gabriella; Soliani, Giulio) A class of nonlinear wave equations containing the continuous Toda case. (English summary) **99c:35157**

Andrushkiw, Roman (*with* Nikitin, Anatolii) Higher symmetries of the wave equation with scalar and vector potentials. (English summary) (*see* **99b:00027**)

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Beckers, Jules On specific symmetries of the KdV equation and on new representations of nonlinear sl(2)-algebras. (English summary) **99c:58064**

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Borodich, F. M. Parametric homogeneity and non-classical self-similarity. I. Mathematical background. (English summary) **99h:00010**

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Bruno, Alexander D. Newton polyhedra and power transformations. (English summary) **99g:34078a**

— Erratum to: "Newton polyhedra and power transformations". **99g:34078b**

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35A35 Theoretical approximation to solutions

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35A99 None of the above, but in this section

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35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)

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— (*with* Zhou, Xiao Ping[1]) The stability of the equilibrium state of an m-dimensional non-uniformly distributed ecosystem with delays. (Chinese. English and Chinese summaries)
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35B40 Asymptotic behavior of solutions

Boni, Théodore K. Sur le comportement asymptotique des solutions pour certaines équations paraboliques et elliptiques semi-linéaires du second ordre. (English and French summaries) [On the asymptotic behavior of solutions for some semilinear parabolic and elliptic equations of second order] **99g:35020**
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Rosencrans, Steve Taylor dispersion in curved channels. (English summary) **99e:35017**
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— Strong asymptotic stability for n-dimensional thermoelasticity systems. (English summary) **99f:35203**
— Asymptotic behavior of solutions to a quasilinear hyperbolic equation with nonlinear damping. (English summary) **99h:35135**
— Some remarks on a second order evolution equation. (English summary) **99j:35138**
— Global existence and energy decay for a damped quasi-linear wave equation. (English summary) **99h:35134**
— Nonlinear boundary stabilization of isotropic elasticity systems. (English summary) **99i:35158**
Abdullaev, Ugur G. Instantaneous shrinking and exact local estimations of solutions in nonlinear diffusion absorption. **99e:35103**
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Aiki, Toyohiko Large-time behavior of one-dimensional two-phase Stefan problems. **99g:35145**
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Astaburuaga, M. A. (*with* Bisognin, E.; Bisognin, V.; Fernández, Claudio A.) Global attractor and finite dimensionality for a class of dissipative equations of BBM's type. (English summary) **99j:35181**

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Bernfeld, Stephen R. (*with* Hu, Yue Yun; Vuillermot, Pierre A.) Large-time asymptotic equivalence for a class of non-autonomous semilinear parabolic equations. (English summary) **99f:35077**

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Bidaut-Véron, Marie-Françoise Asymptotical behavior of solutions of some reaction-diffusion systems. (*see* **98d:35004**)

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Boutet de Monvel, Louis (*with* Chueshov, Igor D.; Khruslov, Evgenii Ya.) Homogenization of attractors for semilinear parabolic equations on manifolds with complicated microstructure. (English summary) **99e:35095**

Bricher, Stephen (*with* Akdoğu, Evrim) The asymptotic behavior for gaseous ignition models. (English summary) **99h:35083**

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Benachour, Said (*with* Laurençot, Philippe) "Solutions très singulières" d'une équation parabolique non linéaire avec absorption. (English and French summaries) [Very singular solutions to a nonlinear parabolic equation with absorption] **99k:35080**
Bourgain, Jean Gibbs measures, quasi-periodic solutions and nonlinear partial differential equations. (English summary) **99e:35207**
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Broadbridge, Philip (*with* Goard, Joanna M.; Lavrent'ev, M. M., Jr.) Degenerate nonlinear diffusion with an initially sharp front. **99a:35149**
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Chandler-Wilde, Simon N. (*with* Zhang, Bo[1]) A uniqueness result for scattering by infinite rough surfaces. (English summary) **99i:35018**
— *see also* **Zhang, Bo[1], 99i:35019**
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Hastings, Stuart P. (*with* Troy, William C.) There are asymmetric minimizers for the one-dimensional Ginzburg-Landau model of superconductivity. (English summary) **99h:35197**
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Hulshof, Josephus Recent results on selfsimilar solutions of degenerate nonlinear diffusion equations. **99c:35126**
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Joshi, Mark S. (*with* Sá Barreto, Antônio) The generation of semilinear singularities by a swallowtail caustic. (English summary) **99c:58155**
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Lu, Dian Chen (*with* Tian, Li Xin; Liu, Zeng Rong) Wavelet basis analysis in perturbed periodic KdV equation. (Chinese. English and Chinese summaries)
Magnanini, Rolando (*with* Sakaguchi, Shigeru) The spatial critical points not moving along the heat flow. (English summary) **99e:35087**
Marras, M. (*with* Mohammed, Seid; Porru, G.) Differential inequalities for Minkowski functionals of level sets. (English summary) **99k:35053**
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McLaughlin, David W. (*with* Shatah, Jalal) Homoclinic orbits for PDE's. (English summary) **99b:58218**
Mignot, Fulbert (*with* Puel, Jean-Pierre) Quelques résultats sur un problème elliptique avec non linéarité exponentielle. (French summary) [Some results on an elliptic problem with exponential nonlinearity] **99j:35065**
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Nakamura, Shin-ichi[1] Local uniqueness of the unknown diffusivity in some heat conduction problem. **99d:35070**
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— *see also* **Magnanini, Rolando, 99e:35087**
Sakamoto, Kunimochi Dynamic reductions in a reaction-diffusion system—an invariant manifold approach. (English summary) (*see* **99f:00026**)
Sandier, Etienne Locally minimising solutions of $-\Delta u = u(1 - |u|^2)$ in $\mathbf{R}^2$. (English summary) **99a:35074**
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Shchelkov, A. G. *see* **Shishkov, Andrei E., 99i:35078**
Shishkov, Andrei E. (*with* Shchelkov, A. G.) Dynamics of the supports of energy solutions of mixed problems for quasilinear parabolic equations of arbitrary order. (Russian. Russian summary) **99i:35078**
Sigal, Israel Michael *see* **Ovchinnikov, Yu. N., (99f:35005)**
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Suslov, S. A. (*with* Roberts, A. J.) Similarity, attraction and initial conditions in an example of nonlinear diffusion. (English summary)
Takaishi, Takeshi *see* **Kokubu, Hiroshi; et al., 99e:35107**
Tang, Yan Bin Traveling wave solutions for a class of cross-diffusion systems. (Chinese. English and Chinese summaries)
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Vakulenko, S. A. (*with* Gordon, P. V.) Propagation and scattering of kinks in a nonhomogeneous nonlinear medium. (Russian. English and Russian summaries) **99f:35182**
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Vega, Luis Remarks on global existence and compactness for L^2 solutions of the critical nonlinear Schrödinger equation in 2D. (English summary) (*see* **99d:35002**)
Wang, Lihe (*with* Zhu, Ning[2]) Removable singular sets of fully nonlinear elliptic equations. (English summary) **99j:35072**
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Yang, Xue Feng[1] Nodal sets and Morse indices of solutions of super-linear elliptic PDEs. (English summary) **99j:35058**
Yin, Zhao Yang (*with* Ding, Wei) An estimate of the Hausdorff dimension of a uniform attractor for a class of nonautonomous reaction-diffusion equations with a quasiperiodic external force. (Chinese. English and Chinese summaries) **99f:35093**
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Zhang, Bo[1] Radiation condition and limiting amplitude principle for acoustic propagators with two unbounded media. (English summary) **99b:35118**
— (*with* Chandler-Wilde, Simon N.) Acoustic scattering by an inhomogeneous layer on a rigid plate. (English summary) **99i:35019**
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35Cxx Representations of solutions

Items with secondary classifications in 35Cxx

Van Lancker, P. Clifford analysis on the sphere. (English summary) **99i:30068**

35C05 Solutions in closed form

Adomian, George A. On exact solutions of nonlinear P.D.E. (English summary)
Aristov, S. N. Periodic and localized exact solutions of the equation $h_t = \Delta \ln h$. (Russian. Russian summary)
Barannik, A. F. (*with* Yurik, Ī. Ī.) On some exact solutions of nonlinear wave equations. (English summary) (*see* **99b:00027**)
— (*with* Yurik, Ī. Ī.) On a new method for constructing exact solutions of the nonlinear differential equations of mathematical physics. (English summary) **99f:35015**
Callebaut, Dirk K. Exact solution of some systems of non-selfadjoint partial differential equations. (English summary) (*see* **99i:00031**)
Chernyshov, A. D. Exact solutions of the problem of the oscillations of complex fields in an angular domain. (Russian. Russian summary) **99m:35026**
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Jódar, Lucas (*with* Goberna, D.) A matrix d'Alembert formula for coupled wave initial value problems. (English summary) **99b:35018**
Kong, De Xing (*with* Hu, Hai-rong) Geometric approach for finding exact solutions to nonlinear partial differential equations. (English summary)
Li, Shuanhu (*with* Sweers, Guido) Closed-form solution for a moving boundary problem. (English summary) **99j:35015**
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Pham Loi Vu Explicit complex-valued solutions of the Korteweg-de Vries equation on the half-line and on the whole-line. (English summary) **99g:35021**
Rudykh, G. A. (*with* Semënov, È. I.) New exact solutions of the one-dimensional nonlinear diffusion equation. (Russian. Russian summary) **99a:35021**
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Yang, Zhong Jin Cylindrical symmetry-like solutions of Laplace equation $\nabla^2 V(\{x_j\}) = 0$. (English summary)
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Barannik, L. F. (*with* Sulewski, P.) Exact solutions of the nonlinear diffusion equation $u_0 + \nabla[u^{-4/5}\nabla u] = 0$. (English summary) (*see* **99b:00027**)
Cai, Hong Ying Exact solitary wave solutions to a higher-order water wave equation. (Chinese)
Camacho, Javier (*with* Jódar, Lucas; Navarro, E.) Exact solution of coupled mixed diffusion problems with coupled boundary conditions. (English summary) **99e:35088**
Cârstea, A. S. (*with* Grecu, D.; Vişinescu, Anca) Exact solutions of a mixed KdV + mKdV and Benjamin-Ono equation. (English summary)
Çelebi, A. Okay *see* **Sengül, Sare**, **99j:35004**
Chen, Min[6] Exact solutions of various Boussinesq systems. (English summary)
Chen, Shao Zhong[1] (*with* Li, Jiequan; Zhang, Tong[1]) Explicit construction of measure solutions of Cauchy problem for transportation equations. (English summary) **99b:35181**
Cherniga, R. M. New exact solutions of nonlinear reaction-diffusion equations. (English summary) **99i:35068**
Deconinck, Bernard (*with* Segur, Harvey) The KP equation with quasiperiodic initial data. (English summary) **99m:35203**
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Ermolaev, E. A. (*with* Zhestkov, S. V.; Kuvshinov, V. I.) Classes of exactly solvable degenerate systems of universal nonlinear partial differential equations. (Russian. Russian summary) **99d:35011**
Fan, En Gui (*with* Zhang, Hong Qing[1]) The homogeneous balance method for solving nonlinear soliton equations. (Chinese. English and Chinese summaries) **99c:35202**
— (*with* Zhang, Hong Qing[1]) New exact solutions to a solutions to a system of coupled KdV equations. (English summary)
Florian, Helmut (*with* Püngel, J.; Tutschke, Wolfgang) Matrix differential transformations. (English summary) **99m:35014**
Gandarias-Núñez, M. L. (*with* Venero, P.; Ramírez-Labrador, José) Similarity reductions for a nonlinear diffusion equation. (English summary) **99f:35087**
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Gudkov, V. V. An analytic approach to the description of combustion waves that propagate at a constant velocity. (Russian. Russian summary) **99a:35117**
Hamdan, M. H. An alternative approach to exact solutions of a special class of Navier-Stokes flows. (English summary) **99g:76035**
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Khater, A. H. (*with* Helal, M. A.; El-Kalaawy, O. H.) Bäcklund transformations: exact solutions for the KdV and the Calogero-Degasperis-Fokas mKdV equations. (English summary) **99d:35142**
Kim, Yong-Jihn (*with* Kwon, Kil Hyun; Lee, Jeong Keun) Partial differential equations having orthogonal polynomial solutions. (English summary) **99j:35007**
Kofané, Timoléon C. *see* **Yomba, Emmanuel**, **99j:35213**
Kovalyov, M. Basic motions of the Korteweg-de Vries equation. **99f:35177**
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Li, Jiequan *see* **Chen, Shao Zhong[1]; et al.**, **99b:35181**
Li, Yi Shen (*with* He, Jing Song) Exact solutions to the Schrödinger equation for a time-dependent harmonic oscillator. (Chinese. Chinese summary)
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Liu, Xiqiang Exact solutions of the variable coefficient KdV and SG type equations. (English summary) **99e:35200**
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Peletier, L. A. Self-similar solutions of the second kind. **99a:35134**
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Polyanin, A. D. (*with* Zhurov, A. I.) Exact solutions of nonlinear equations in mechanics and mathematical physics. (Russian)
Porubov, A. V. (*with* Velarde, M. G.) Exact periodic solutions of the complex Ginzburg-Landau equation. (English summary) **99j:35209**
Püngel, J. *see* **Florian, Helmut; et al.**, **99m:35014**
Ramírez-Labrador, José *see* **Gandarias-Núñez, M. L.; et al.**, **99f:35087**
Rigat, Stéphane Version explicite du principe fondamental d'Ehrenpreis-Malgrange-Palamodov dans le cas non homogène. (French summary) [Explicit version of the Ehrenpreis-Malgrange-Palamodov fundamental principle in the nonhomogeneous case] **99g:32004**
Roman, Olena Nonlinear conformally invariant wave equations and their exact solutions. (English summary) (*see* **99b:00027**)
Rottbrand, K. Time-dependent plane wave diffraction by a half-plane: explicit solution for Rawlins' mixed initial boundary value problem. (English and German summaries) **99c:35133**
Rudykh, G. A. (*with* Semënov, È. I.) Exact nonnegative solutions of the multidimensional nonlinear diffusion equation. (Russian. Russian summary) **99h:35095**
— (*with* Semënov, È. I.) On new exact solutions of the one-dimensional nonlinear diffusion equation with a source (sink). (Russian. Russian summary) **99e:35102**
Samsonov, A. M. On exact quasistationary solutions to a nonlinear reaction-diffusion equation. (English summary)
Segur, Harvey *see* **Deconinck, Bernard**, **99m:35203**
Semënov, È. I. *see* **Rudykh, G. A.**, **99e:35102** *and* **99h:35095**
Sengül, Sare (*with* Çelebi, A. Okay) On Riemann functions for complex differential equations. (English summary) **99j:35004**
Shang, Ya Dong (*with* Niu, Peng Cheng) Exact solitary wave solutions for some nonlinear evolution equations. (Chinese. English and Chinese summaries)
Shen, M. C. (*with* Yeh, N. S.) Exact solution for forced capillary-gravity waves in a circular basin under Hocking's edge condition. (English summary) **99e:76013**
Sulewski, P. *see* **Barannik, L. F.**, (**99b:00027**)
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Vişinescu, Anca *see* **Cârstea, A. S.; et al.**
Wang, Ming Liang (*with* Zhou, Yu Bin; Li, Zhi Bin[1]) A nonlinear transformation of the dispersive long wave equations in $(2 + 1)$ dimensions and its applications. (English summary) **99c:35168**
Wu, Zuyu (*with* Zhang, Dehai) Exact solutions of the matrix KP equation. (English summary) **99c:58085**
Xu, Xue Jun (*with* Zhang, Jie Fang) New exact and explicit solitary wave solutions to a class of coupled nonlinear equations. (English summary)
Yan, Zhenya (*with* Zhang, Hong Qing[1]) New explicit and exact travelling wave solutions for a system of variant Boussinesq equations in mathematical physics. (English summary)
Yeh, N. S. *see* **Shen, M. C.**, **99e:76013**
Yomba, Emmanuel (*with* Kofané, Timoléon C.) On exact solutions of modified complex Ginzburg-Landau equation. (English summary) **99j:35213**
Zhang, Dehai *see* **Wu, Zuyu**, **99c:58085**
Zhang, Hong Qing[1] *see* **Fan, En Gui**, **99c:35202** *and* **Yan, Zhenya**
Zhang, Jie Fang New exact solitary wave solutions of the KS equation. (English summary)
— *see also* **Xu, Xue Jun**
Zhang, Tong[1] *see* **Chen, Shao Zhong[1]; et al.**, **99b:35181**
Zhestkov, S. V. *see* **Ermolaev, E. A.; et al.**, **99d:35011**
Zhou, Yu Bin *see* **Wang, Ming Liang; et al.**, **99c:35168**
Zhurov, A. I. *see* **Polyanin, A. D.**

35C10 Series solutions, expansion theorems

Altın, Abdullah (*with* Kaya, Meryem) Polynomial solutions for a class of singular partial differential equations. (English summary) **99c:35027**
Kaya, Meryem *see* **Altın, Abdullah**, **99c:35027**
Monasse, Pascal (*with* Perrier, Valérie) Orthonormal wavelet bases adapted for partial differential equations with boundary conditions. (English summary) **99c:35028**
Pedersen, Paul S. Basis for power series solutions to systems of linear, constant coefficient partial differential equations. (English summary) **99k:35022**
Perrier, Valérie *see* **Monasse, Pascal**, **99c:35028**
Yoshino, Masafumi Convergence of formal solutions of fully nonlinear equations of Monge-Ampère type. (English summary) **99f:35016**

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Almenar, P. (*with* Goberna, D.; Jódar, Lucas) Constructive approximations of mixed variable coefficient diffusion problems. (English summary) **99m:35093**
Arnaudov, Ya. N. (*with* Georgiev, Vladimir; Venkov, Georgy P.) Atkinson-Wilcox decomposition for small permutation of the sphere. (*see* **99m:00024**)
Balser, W. (*with* Peyerimhoff, A.) A Laurent-type expansion for solutions of Stokes' equation in sectorial regions. (English and Russian summaries) **99b:35166**
Basdevant, Claude Wavelet based methods for PDEs. **99i:65152**
Boiti, Chiara (*with* Nacinovich, Mauro) Extension of formal power series solutions. **99k:35006**
Borzymowski, Andrzej (*with* Shaieb, Mustafa) Goursat-type problems containing the normal derivatives of the unknown functions. (English summary) **99a:35159**

Bragg, Louis R. Polynomial expansions of solutions of Cauchy problems that involve one space variable. (English summary) **99f:35072**
Chanane, B. A series solution for nonlinear differential equations using delta operators. (English summary)
Dorschfeldt, Christoph (*with* Tarkhanov, Nikolai N.) Golubev series for solutions of elliptic equations. (English summary) **99d:35008**
Georgiev, Vladimir *see* **Arnaudov, Ya. N.; et al.,** (**99m:00024**)
Gérard, Raymond (*with* Tahara, Hidetoshi) Formal power series solutions of nonlinear first order partial differential equations. **99d:35009**
Goberna, D. *see* **Almenar, P.; et al., 99m:35093**
Goedecker, Stefan ★ Wavelets and their application. (English summary) **99m:00014**
Gorechko, A. N. Construction of the solutions of linear hyperbolic systems using Laguerre geometric-optic expansions. (English summary) **99h:35121**
Gregory, R. Douglas Uniform bounds for $P_n^m(\cos\theta)$ and the absolute convergence of series expansions in spherical surface harmonics. (English summary) **99c:33022**
Jódar, Lucas *see* **Almenar, P.; et al., 99m:35093** *and* **Ponsoda, E., 99m:65191**
Li, Shuanhu Fourier series solution for an unsaturated flow with extraction. (English and Chinese summaries) **99d:35091**
Liu, Zeng Rong *see* **Lu, Dian Chen; et al.**
Lu, Dian Chen (*with* Tian, Li Xin; Liu, Zeng Rong) Wavelet basis analysis in perturbed periodic KdV equation. (Chinese. English and Chinese summaries)
Mandai, Takeshi Asymptotic solutions and exact solutions for exceptional cases of some characteristic Cauchy problems. **99g:35007**
Nacinovich, Mauro *see* **Boiti, Chiara, 99k:35006**
Owens, Robert G. Spectral approximations on the triangle. (English summary) **99i:33028**
Peyerimhoff, A. *see* **Balser, W., 99b:35166**
Ponsoda, E. (*with* Jódar, Lucas) Numerical solutions with a priori error bounds for coupled self-adjoint time dependent partial differential systems. (English summary) **99m:65191**
Rylko, Natalia (*with* Żebrowski, Andrzej) Boundary value problems for the Laplace equation, the Poincare series and the method of Schwarz.
Shaieb, Mustafa *see* **Borzymowski, Andrzej, 99a:35159**
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35C15 Integral representations of solutions of PDE

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Akhiev, S. S. *see* **Oruçoğlu, Kamil, 99m:35136**
Ammari, Habib (*with* Laouadi, M.; Nédélec, Jean-Claude) Low frequency behavior of solutions to electromagnetic scattering problems in chiral media. (English summary) **99c:35239**
Balabaev, V. E. Generalized solutions of first-order, normal elliptic systems and their estimates. (Russian. Russian summary) **99k:35039**
Begehr, Heinrich G. W. (*with* Hile, G. N.) A hierarchy of integral operators. **99i:35013**
Bragg, Louis R. A class of Cauchy problems that involve factorable differential operators. (English summary) **99e:35021**
Engliš, Miroslav (*with* Peetre, Jaak) Green's functions for powers of the invariant Laplacian. (English summary) **99c:58146**
Fokas, A. S. (*with* Pelloni, B.) The solution of certain initial boundary-value problems for the linearized Korteweg-de Vries equation. (English summary) **99e:35197**
Fryant, A. (*with* Vemuri, M. K.) Wave polynomials. (English summary) **99i:35086**
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Oruçoğlu, Kamil (*with* Akhiev, S. S.) The Riemann function for the third-order one-dimensional pseudoparabolic equation. (English summary) **99m:35136**
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Yao, De Zhong Simplification of the integral solution of the wave equation and Huygens' principle. (Chinese. English and Chinese summaries)
Yoshida, Hidenobu (*with* Miyamoto, Ikuko) Particular solutions of the Dirichlet problem on a strip with continuous data. (English summary) **99j:31007**

35C20 Asymptotic expansions

Ammari, Habib (*with* Nédélec, Jean-Claude) Full low-frequency asymptotics for the reduced wave equation. (English summary)
Chen, Xinfu Rigorous verifications of formal asymptotic expansions. **99f:35017**
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Dai, Hui-Hui On the asymptotic solution of a wave damping problem arising in inhomogeneous media. (English summary)
Easwaran, Chirakkal V. (*with* Chikwendu, Sunday C.) A Laplace-transform multiple-scale procedure for the asymptotic solution of weakly non-linear partial differential equations. (English summary)
Eidelman, Samuil D. *see* **Zhitarashu, N. V., 99g:35024**
Gagnidze, A. G. Asymptotic expansion of solutions of parabolic equations with a small parameter. (English summary) **99h:35022**
Nédélec, Jean-Claude *see* **Ammari, Habib**
Sakamoto, Kunimochi Asymptotic expansion of interface equation for a reaction-diffusion system. (English summary) (*see* **99a:35004**)
Sokīl, B. Ī. On an asymptotic approximation of a solution of a boundary value problem for a nonlinear nonautonomous equation. (Ukrainian. English and Ukrainian summaries) **99m:35027**
Yoshino, Masafumi Small divisor problems and divergent formal power series solutions. **99g:35023**
Zhitarashu, N. V. (*with* Eidelman, Samuil D.) On the asymptotic representation and stabilization of solutions of some model boundary value problems and conjugation problems for a parabolic system of second-order equations. (Russian. English, Russian and Moldavian summaries) **99g:35024**

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Akhmetov, R. G. Asymptotic behavior of the solution of a boundary value problem for an elliptic equation. (Russian. Russian summary) **99i:35023**
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Barnes, A. N. *see* **Needham, D. J., 99k:35093**
Branson, Thomas (*with* Ólafsson, Gestur) Asymptotics of the d'Alembertian with potential on a pseudo-Riemannian manifold. (English summary) **99h:58189**
Brauner, Claude-Michel (*with* Hulshof, Josephus; Schmidt-Lainé, Claudine) The saddle point property for focusing selfsimilar solutions in a free boundary problem. (English summary) **99c:35262**
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Budd, C. J. (*with* Humphries, A. R.) Weak finite-dimensional approximations of semi-linear elliptic PDEs with near-critical exponents. (English summary) **99g:65109**
Buslaev, Vladimir *see* **Buslaeva, M. V., 99j:35028**
Buslaeva, M. V. (*with* Buslaev, Vladimir) Singularity of the Green function of the nonstationary Schrödinger equation. (Russian) **99j:35028**
Cadeddu, L. (*with* Gramchev, Todor) Singular asymptotic expansions and delta waves for Burgers' equation. (English summary) **99h:35182**
Carles, Rémi Comportements précisés près d'une caustique en optique géométrique non linéaire. [Behavior near caustics in nonlinear geometric optics] **99j:35139**
Chen, Zong Rong (*with* Hu, Qing Long) The asymptotic theory of solutions of initial value problems for nonlinear perturbed telegraph equations. (Chinese. English and Chinese summaries) **99k:35121**
Chilachava, T. On the asymptotic method of solution of one class of nonlinear mixed problems of mathematical physics. (English summary) **99e:35182**
Corli, Andrea Asymptotic analysis of contact discontinuities. (English summary) **99f:35128**
Dauge, Monique (*with* Gruais, Isabelle) Asymptotics of arbitrary order for a thin elastic clamped plate. II. Analysis of the boundary layer terms. (English summary) **99d:73055**
Gallagher, Isabelle Asymptotic of the solutions of hyperbolic equations with a skew-symmetric perturbation. (English summary) **99k:35014**
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Iwasaki, Chisato A new construction of an asymptotics for the fundamental solution for parabolic initial-boundary problem and its application to the $\overline{\partial}$-Neumann problem. **99c:58157**
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Kravchenko, V. F. (*with* Nesenenko, G. A.) Application of the method of boundary integral equations for determining the boundary-layer asymptotics of the solution of a nonlinear singularly perturbed boundary value problem of heat conduction. (Russian. Russian summary) **99d:35069**
Lacey, Andrew A. (*with* Ockendon, J. R.; Sabina, José C.) Multidimensional reaction diffusion equations with nonlinear boundary conditions. (English summary) **99g:35066**
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Lannes, David Dispersive effects for nonlinear geometrical optics with rectification. (English summary) **99m:35142**
Lods, Véronique (*with* Miara, Bernadette) Nonlinearly elastic shell models: a formal asymptotic approach. II. The flexural model. (English summary) **99j:73072**
Mandai, Takeshi Asymptotic solutions and exact solutions for exceptional cases of some characteristic Cauchy problems. **99g:35007**
Maslov, V. P. (*with* Shafarevich, Andrei I.) Localized asymptotic solutions of the Navier-Stokes equations, and laminar wakes in an incompressible fluid. (Russian. Russian summary) **99m:76046**
Matros, A. D. Asymptotic solution of a boundary value problem for a singularly perturbed equation of mixed type. (Russian. Russian summary) **99i:35112**
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Mo, Jia Qi The singularly perturbed nonlocal boundary value problems for higher order nonlinear elliptic equations. (English summary) **99e:35010**

Nazarov, Sergei A. (*with* Pileckas, Konstantin) Asymptotics of solutions to Stokes and Navier-Stokes equations in domains with paraboloidal outlets to infinity. (English summary) **99h:35168**

Needham, D. J. (*with* Barnes, A. N.) Reaction-diffusion and phase waves occurring in a class of scalar reaction-diffusion equations. (English summary) **99k:35093**

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Ôuchi, Sunao Singular solutions with asymptotic expansion of linear partial differential equations in the complex domain. (English summary) **99g:35008**

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Plamenevskiĭ, B. A. On the Dirichlet problem for the wave equation in a cylinder with edges. (Russian) **99i:35087a**

— Erratum: "On the Dirichlet problem for the wave equation in a cylinder with edges". (Russian) **99i:35087b**

Rouques, Jean-Philippe Laplace asymptotics for generalized K.P.P. equation. (English summary) **99b:35096**

Sabina, José C. *see* **Lacey, Andrew A.; et al., 99g:35066**

Sändig, Anna-Margarete (*with* Wendland, Wolfgang L.) Asymptotic expansions of elastic fields in domains with boundary and structural singularities. **99k:73041**

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Schulze, Bert-Wolfgang (*with* Sternin, Boris Yu.; Shatalov, V. E.) Nonstationary problems for Borel-Fuchs type equations. (English summary) **99i:35108**

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Shimomura, Shun Asymptotic expansions and Stokes multipliers of the confluent hypergeometric function Φ_2. II. Behaviour near (∞, ∞) in $\mathrm{P}^1(\mathbf{C}) \times \mathrm{P}^1(\mathbf{C})$. **99h:33019**

— On a generalized Bessel function of two variables. II. Case of coalescing saddle points. (English summary) **99j:33018**

Shishkin, G. I. Grid approximation of parabolic equations with small parameters multiplying the space and time derivatives. Reaction-diffusion equations. (English summary) **99k:65076**

Sternin, Boris Yu. (*with* Shatalov, V. E.) Alien differential calculus and resurgent equations. (Russian. Russian summary) **99d:34106**

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Williams, Mark Nonlinear geometric optics for reflecting and glancing oscillations. (English summary) **99j:35128**

35C99 None of the above, but in this section

Abdel-Gawad, H. I. An approach to solutions of systems of linear partial differential equations with applications. (English summary) **99e:35019**

Ayupova, N. B. (*with* Golubyatnikov, V. P.) On formal solutions to multidimensional evolution equations. (English summary) **99m:35028**

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Dimitrovski, Dragan (*with* Rajović, Miloje; Stojiljković, Rade) Méthode des itérations appliquée aux équations de type I. N. Vécua d'ordre supérieur aux coefficients analytiques. (French summary) [Iteration method applied to higher-order equations of I. N. Vekua type with analytic coefficients]

Fishman, Louis Exact, uniform asymptotic, and numerical constructions of Helmholtz operator symbols. (English summary) (*see* **99d:00023**)

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Rosculet, Marcel (*with* Bărbulescu, Ion) On some partial differential equations of hyperbolic type. Mean-formulas.

Stojiljković, Rade *see* **Dimitrovski, Dragan; et al.**

Tolpaev, V. A. Solution of boundary value problems with mixed boundary conditions in a rectangular multilayer domain. (Russian. English and Russian summaries)

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Antonevich, Anatoliĭ B. On a construction of the solutions for some elliptic equations with generalized coefficients. (English summary) (*see* **99i:00031**)

Arbuzov, È. V. (*with* Bukhgeĭm, A. L.) Carleman's formulas for A-analytic function in a half-plane. (English summary) **99i:30058**

Bardi, Martino (*with* Faggian, Silvia) Hopf-type estimates and formulas for nonconvex nonconcave Hamilton-Jacobi equations. (English summary) **99e:35023**

Bazhlekova, Emilia Duhamel-type representations of the solutions of non-local boundary value problems for the fractional diffusion-wave equation. (English summary) **99i:26008**

Beals, Richard William (*with* Gaveau, Bernard; Greiner, Peter C.) Uniforms hypoelliptic Green's functions. (English and French summaries) **99e:35024**

Beauzamy, Bernard Stability of the solutions of differential equations. (English summary) **99j:35006**

Blanes, Sergio (*with* Jódar, Lucas) Continuous numerical solutions of coupled mixed partial differential systems using Fer's factorization. (English summary) **99m:65194**

Bogachev, T. V. Some special functions that arise in connection with the equation $\Delta U + l^2(\varphi)U = 0$. (Russian. English and Russian summaries) **99j:35024**

Bourgain, Jean (*with* Wang, Wen Sheng[1]) Construction of blowup solutions for the nonlinear Schrödinger equation with critical nonlinearity. **99m:35219**

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Capozzi, A. (*with* Salvatore, A.) Subharmonic solutions of nonlinear wave equations on S^n. (English summary) **99e:35146**

Chung, Soon-Yeong Temperature functions and decomposition theorems. **99b:35080**

Dai, Qiu Yi (*with* Gu, Yong Geng) Asymptotic analysis of the global solution to a semilinear parabolic equation with a singular term. (Chinese. English and Chinese summaries) **99f:35096**

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Euler, Norbert (*with* Lindblom, Ove; Euler, Marianna; Persson, Lars-Erik) The higher-dimensional Bateman equation and Painlevé analysis of nonintegrable wave equations. (English summary) (*see* **99b:00027**)

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Flavin, James N. The method of cross-sectional integrals for P.D.E.s. **99f:35013**

Franks, Edwin (*with* Ryan, John) Bounded monogenic functions on unbounded domains. (English summary) **99a:30043**

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Gilbert, Robert Pertsch Applications of reproducing kernels to partial differential systems. (English summary) **99j:46093**

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Hood, Simon On using materially conserved quantities to construct solutions of differential equations. (English summary) **99d:76083**

Hu, Xing-Biao (*with* Wu, Yong-Tang; Zhu, Si-Ming; Geng, Xian-Guo) Some new results on the triple-humped soliton equation: Bäcklund transformation, superposition principle and new explicit solutions. (English summary)

Hui, Gary Man-Kwong (*with* Swann, Howard) On orthogonal polynomial bases for triangles and tetrahedra invariant under the symmetric group. (*see* **99f:65005**)

Ilyin, Dmitry On constructing the 3-weak solution for some elliptic equation with generalized coefficients. (English summary) **99m:35036**

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Kanantai, Amnuay On the convolution equation related to the diamond kernel of Marcel Riesz. (English summary) **99k:46065**

Lesnic, D. (*with* Elliott, Lionel) The decomposition approach to inverse heat conduction. (English summary) **99k:35195**

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Lisitsyn, Ya. V. (*with* Shapovalov, A. V.) Noncommutative solutions of the d'Alembert equation. (Russian. Russian summary) **99j:35223**

Liu, Zhi Guo Some identities for differential operators and Hermite polynomials. (Chinese. English and Chinese summaries) **99i:33008**

Luchko, Yurii F. (*with* Gorenflo, Rudolf) Scale-invariant solutions of a partial differential equation of fractional order. (English summary) **99i:35006**

Nitsche, Johannes C. C. Removable singularities of the differential equation $rt - s^2 = 1$. (English summary) **99h:35052**

Oganesyan, A. O. Huygens' principle, the Painlevé property, and linear differential equations. (Russian. Armenian summary)

Özalp, Nuri *see* **Taşdelen, Fatma, 99d:39014**

Pandit, Sudhakar G. Variation of parameters formulas and maximum principles for linear hyperbolic problems in two independent variables. (English summary) **99e:35127**

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Persson, Lars-Erik *see* **Euler, Norbert; et al., (99b:00027)**

Repin, O. A. Generalized operators of fractional integro-differentiation in meaning of M. Saigo and their applications. (English summary) (*see* **99i:00031**)

Rothe, F. A variant of Frobenius' method for the Emden-Fowler equation. (English summary) **99b:35058**

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Simonov, Nikolai A. Stochastic iterative methods for solving equations of parabolic type. (Russian. Russian summary) **99c:35087**

Song, Jie (*with* Li, Ming Zhong) Nonlinear Riemann-Hilbert boundary value problems for a class of nth order systems. (Chinese. English and Chinese summaries)

Streater, R. F. Nonlinear heat equations. (English summary) **99d:82070**

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Syavavko, M. S. (*with* Pasichnik, T. V.) The transformation of parameter formal decomposition for solutions of linear differential equations in convergence continued Ritz-fractions. **99b:47019**

Takahashi, Futoshi A method for constructing solutions to nonlinear elliptic equations with higher-dimensional singular sets. (Japanese) (*see* **99h:35003**)

Taşdelen, Fatma (*with* Özalp, Nuri) Some extensions of Gallop's formulas. (English summary) **99d:39014**

Tian, Bo (*with* Zhao, Ke Yi; Gao, Yi Tian) Some analytical solutions for the $(2+1)$-dimensional nonintegrable and integrable dispersive long wave equations. (English summary)

Vaksman, L. L. Integral intertwining operators and quantum homogeneous spaces. (Russian. English and Russian summaries) **99a:32046**

Wang, Wen Sheng[1] *see* **Bourgain, Jean, 99m:35219**

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Yakubov, Sasun (*with* Yakubov, Yakov) Generalization of the d'Alembert formula and the Fourier method. (English summary) **99i:34081**
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Yi, Le Function-theoretic methods for the composite systems of second order differential equations. (English and Chinese summaries) **99d:35112**
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35Dxx Generalized solutions of partial differential equations

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Roubíček, Tomáš Nonlinear heat equation with L^1-data. (English summary) **99j:35115**
Tutschke, Wolfgang ★ Inhomogeneous equations in complex analysis. **99h:35004**
Zasorin, Yu. V. Harmonic analysis in Schwartz spaces of distributions and some applications to nonclassical problems of mathematical physics. (Russian. Russian summary) **99c:46038**

35D05 Existence of generalized solutions

Bridges, Douglas (*with* Wang, Yuchuan) Weak solutions of the Dirichlet problem and the locatedness of $H_0^1(\Omega)$. (English summary) **99c:35029**
Cardaliaguet, P. (*with* Dacorogna, Bernard; Gangbo, Wilfrid; Georgy, N.) Geometric restrictions for the existence of viscosity solutions. (English and French summaries) **99k:35023**
Dacorogna, Bernard A new approach to the existence of almost everywhere solutions of nonlinear PDEs. (English summary) (*see* **99a:00025**)
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Ding, Xia Xi Generalized solutions defined by Lebesgue-Stieltjes integrals. (English summary) (*see* **99b:00025**)
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Toledo da Silva, João On $\overline{\partial}$-Neumann's problem in generalized functions framework. (English summary) **99j:35016**
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Amadori, Debora (*with* Colombo, Rinaldo M.) Viscosity solutions and standard Riemann semigroup for conservation laws with boundary. (English summary) **99h:35122**
Amirat, Youcef (*with* Ziani, Abdelhamid) Global weak solutions for a parabolic system modeling a one-dimensional miscible flow in porous media. (English summary) **99c:35096**
Andronikof, Emmanuel (*with* Tose, Nobuyuki) Elliptic boundary value problems in the space of distributions. **99i:58139**
Araki, Makoto Hölder continuous weak solutions of degenerate quasi-linear elliptic systems. **99i:35032**
Arioli, Gianni (*with* Gazzola, Filippo) Weak solutions of quasilinear elliptic PDE's at resonance. (English and French summaries) **99e:35047**
Belova, N. O. Spectral synthesis in weighted Sobolev spaces [translation of Trudy Instituta Matematiki, Vol. 31, 3–39, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **99k:46050**
Benamou, Jean-David (*with* Brenier, Yann) Weak existence for the semigeostrophic equations formulated as a coupled Monge-Ampère/transport problem. (English summary) **99i:35162**
Bergamasco, Adalberto P. (*with* Petronilho, Gerson) Closedness of the range for vector fields on the torus. (English summary) **99m:35006**
Biagioni, Hebe A. (*with* Iório, Rafael José, Jr.) Generalized solutions to the Kuramoto-Sivashinsky equation. (English summary) **99f:35174**
Bian, Baojun Viscosity solutions of the implicit obstacle problems. (English summary) **99m:35091**
Boccardo, Lucio (*with* Gallouët, Thierry; Orsina, Luigi) Existence and nonexistence of solutions for some nonlinear elliptic equations. **99c:35067**
Bokalo, N. M. (*with* Dmytriv, V.) Problem without initial conditions for one kind of quasilinear degenerate parabolic equations. (English and Russian summaries)
Boldrini, José Luiz *see* **Rojas Medar, Marko A., 99k:76154**
Boutet de Monvel-Berthier, Anne-Marie (*with* Chueshov, Igor D.) Uniqueness theorem for weak solutions of von Karman evolution equations. (English summary) **99g:35088**
Brandi, Primo (*with* Marcelli, Cristina) On mixed problem for first order partial differential functional equations. (English summary) **99j:35225**
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Kawashima, Shuichi (*with* Nishibata, Shinya) Weak solutions with a shock to a model system of the radiating gas. (English summary) **99d:76087**
Koněnkov, A. N. On the behavior of the derivative of a parabolic double-layer potential near the boundary. (Russian. Russian summary) **99j:65169**
Kunzinger, M. *see* **Hörmann, G.**, **99d:35168**
Le, Vy Khoi On some equivalent properties of sub- and supersolutions in second order quasilinear elliptic equations. (English summary) **99h:35049**
Liang, Xi Ting *see* **Wang, Xiang Dong**, **99b:35059**
Lin, Fang Hua *see* **Han, Qing**[1]**; et al.**, **99h:35032a** *and* **99h:35032b**
Liu, Tai-Ping (*with* Xin, Zhouping) Pointwise decay to contact discontinuities for systems of viscous conservation laws. (English summary) **99b:35138**
Nedeljkov, Marko Infinitely narrow soliton solutions to scalar conservation laws in Colombeau sense. (English summary) **99d:35099**
Nishibata, Shinya *see* **Kawashima, Shuichi**, **99d:76087**
Omel'yanov, G. A. *see* **Danilov, V. G.; et al.**, **99d:35181**
Radkevich, E. V. *see* **Danilov, V. G.; et al.**, **99d:35181**
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Radyno, Ya. V. *see* **Antonevich, Anatoliĭ B.; et al.**, **99d:46054**
Scarpalézos, D. *see* **Delcroix, A.**, **99d:46055**
Spiliotis, J. On a Monge-Ampère operator. **99k:35054**
Våge, Gjermund Stability and vanishing viscosity for a class of SPDEs related to turbulent transport. (English summary) **99h:35239**
Wang, Xiang Dong (*with* Liang, Xi Ting) Boundedness and a priori estimates of generalized solutions to elliptic equations with critical growth. (Chinese. English and Chinese summaries) **99b:35059**
Xiao, Shutie (*with* Huang, Zhida) Some typical behaviors of weak solutions of layered porous media equation. (English summary) **99a:35214**
Xin, Zhouping *see* **Liu, Tai-Ping**, **99b:35138**

35Exx Equations and systems with constant coefficients [see also 35N05]

Trèves, François Thèse d'Hörmander. I. (French summary) [Hörmander's thesis. I] (*see* **99f:00035**)
— Thèse d'Hörmander. II. (French summary) [Hörmander's thesis. II] (*see* **99f:00035**)

35E05 Fundamental solutions

Schwartz, Laurent Solution élémentaire d'une équation aux dérivées partielles à coefficients constants (d'après B. Malgrange). [Elementary solution of a partial differential equation with constant coefficients (after B. Malgrange)] (*see* **99f:00034**)

Items with secondary classifications in 35E05

Bassotti Rizza, Lucilla Approximation of the Green operator for linear elliptic differential operators of order four and constant coefficients. (English summary) **99j:35039**

35E15 Initial value problems

Bragg, Louis R. A class of Cauchy problems that involve factorable differential operators. (English summary) **99e:35021**
Korobeĭnik, Yu. F. Letter to the editors: "Representing systems of exponentials and the Cauchy problem for partial differential equations with constant coefficients" [Izv. Ross. Akad. Nauk Ser. Mat. **61** (1997), no. 3, 91–132; MR 98h:35032]. (Russian) **99h:35024**

Items with secondary classifications in 35E15

Ermolaev, E. A. (*with* Zhestkov, S. V.; Kuvshinov, V. I.) Classes of exactly solvable degenerate systems of universal nonlinear partial differential equations. (Russian. Russian summary) **99d:35011**
Fichera, Gaetano A boundary value problem connected with response of semi-space to a short laser pulse. (English and Italian summaries) **99c:35139**
— *see also* **Oleĭnik, Ol'ga Arsen'evna**, **99c:35140**
Kuvshinov, V. I. *see* **Ermolaev, E. A.; et al.**, **99d:35011**
Oleĭnik, Ol'ga Arsen'evna Addition to the G. Fichera paper: "A boundary value problem connected with response of semi-space to a short laser pulse" [Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. **8** (1997), no. 3, 197–227; MR 99c:35139]. **99c:35140**
Zhestkov, S. V. *see* **Ermolaev, E. A.; et al.**, **99d:35011**

35E20 General theory

Burskiĭ, V. P. Boundary value problems for a differential equation with constant coefficients, and a moment problem. (Russian) **99a:35022**
Guo, Kanghui (*with* Pan, Yi Biao) L^p properties of the solutions of differential equations with constant coefficients. **99j:35017**
Ha Huy Bang Theorems of Paley-Wiener-Schwartz type. (Russian) **99g:35025**
Kazaryan, G. G. On the localization at infinity of differential polynomials with constant coefficients. (Russian. English and Russian summaries) **99h:35025**
Pan, Yi Biao *see* **Guo, Kanghui**, **99j:35017**
Zhegalov, V. I. The structure of the solution of a partial differential equation. (Russian. Russian summary) **99i:35012**
Zhou, Ding-Xuan Solvability of linear systems of PDE's with constant coefficients. (English summary) **99j:35018**

Items with secondary classifications in 35E20

Albrecht, Ernst (*with* Ricker, Werner J.) On p-dependent local spectral properties of certain linear differential operators in $L^p(\mathbf{R}^N)$. (English summary) **99d:47018**
Baouendi, Mohamed Salah Les opérateurs de convolution (d'après Léon Ehrenpreis et Lars Hörmander). [Convolution operators (after Leon Ehrenpreis and Lars Hörmander)] (*see* **99f:00040**)
Kaneko, Akira On continuation of Gevrey class solutions of linear partial differential equations. (English summary) **99a:35008**
Ligocka, Ewa On extensions of the Mittag-Leffler theorem. (English summary) **99e:32007**
Malgrange, Bernard Systèmes différentiels à coefficients constants. [Differential systems with constant coefficients] (*see* **99f:00040**)
— Majorations a priori et d''-cohomologie [MR **31** #378]. [A priori upper bounds and d''-cohomology] (*see* **99f:00040**)
Pedersen, Paul S. Basis for power series solutions to systems of linear, constant coefficient partial differential equations. (English summary) **99k:35022**
Ricker, Werner J. *see* **Albrecht, Ernst**, **99d:47018**
Rigat, Stéphane Version explicite du principe fondamental d'Ehrenpreis-Malgrange-Palamodov dans le cas non homogène. (French summary) [Explicit version of the Ehrenpreis-Malgrange-Palamodov fundamental principle in the nonhomogeneous case] **99g:32004**
Todorov, T. S. On a class of Nelson-type examples for higher order partial differential operators. **99b:47070**
Zasorin, Yu. V. Harmonic analysis in Schwartz spaces of distributions and some applications to nonclassical problems of mathematical physics. (Russian. Russian summary) **99c:46038**

35E99 None of the above, but in this section

Items with secondary classifications in 35E99

Krylov, Nicolai V. (*with* Lototskiĭ, S. V.) A Sobolev space theory of SPDEs with constant coefficients on a half line. (English summary) **99k:60164**
Lototskiĭ, S. V. *see* **Krylov, Nicolai V.**, **99k:60164**

35Fxx General first-order equations and systems

35F05 General theory of linear first-order PDE

Begehr, Heinrich G. W. (*with* Hile, G. N.) A hierarchy of integral operators. **99i:35013**
Egorov, A. A. Stability of classes of Lipschitz solutions of systems of first-order linear differential equations. (Russian) **99b:35019**
Hile, G. N. *see* **Begehr, Heinrich G. W.**, **99i:35013**
Izumiya, Shyuichi Characteristic vector fields for first order partial differential equations. **99c:35030**

Items with secondary classifications in 35F05

Izobov, N. A. Linear Pfaff systems with the lower characteristic vectors' set of positive Lebesgue measure.
Kolev, Dimitar Involutivity and simple waves in $\mathbf{R}^2$. (English summary) **99k:35111**
Krylov, Nicolai V. On one-dimensional SPDEs with constant coefficients on the positive half axis. (English summary) **99j:60092**
Matsumoto, Waichiro The strong hyperbolicity of first order systems with coefficients depending only on the time variable. (*see* **99d:00015**)
Müller, Stefan C. (*with* Šverák, Vladimír) Unexpected solutions of first and second order partial differential equations. (English summary) **99j:35040**
Schulz, Friedmar On the unique continuation property of elliptic divergence form equations in the plane. **99e:35035**
Šverák, Vladimír *see* **Müller, Stefan C.**, **99j:35040**

35F10 Initial value problems for linear first-order PDE, linear evolution equations

Ninomiya, Haruki On uniqueness in the Cauchy problem for first-order linear partial differential equations. (English summary) **99e:35022**
Sarrico, C. O. R. On the explicit solution of the linear first order Cauchy problem with distributional coefficients. (English summary) **99a:35023**

Items with secondary classifications in 35F10

Lamb, Wilson *see* **McLaughlin, D. J.; et al.**, **99i:35166** *and* **99i:35168**
Matsuzawa, Tadato Gevrey hypoellipticity of the Grushin operators and the heat kernel method. (English summary) **99f:35239**
McBride, A. C. *see* **McLaughlin, D. J.; et al.**, **99i:35166** *and* **99i:35168**
McLaughlin, D. J. (*with* Lamb, Wilson; McBride, A. C.) A semigroup approach to fragmentation models. (English summary) **99i:35166**
— (*with* Lamb, Wilson; McBride, A. C.) Existence and uniqueness results for the non-autonomous coagulation and multiple-fragmentation equation. (English summary) **99i:35168**

35F15 Boundary value problems for linear first-order PDE

Yanov, S. I. On the behavior as $t \to \infty$ of the solution of the first exterior mixed problem for the Sobolev system. (Russian. Russian summary) **99m:35030**

Items with secondary classifications in 35F15

Secchi, Paolo A symmetric positive system with nonuniformly characteristic boundary. (English summary) **99m:35054**

35F20 General theory of nonlinear first-order PDE

Amaranath, T. *see* **Nigam, S. D.**
Barron, E. N. (*with* Jensen, Robert R.; Liu, Wenxiong) Applications of the Hopf-Lax formula for $u_t + H(u, Du) = 0$. (English summary) **99a:35024**
Costa, David G. Multiple solutions for a class of strongly indefinite problems. (English and Portuguese summaries) **99j:35019**
Dacorogna, Bernard (*with* Marcellini, Paolo) Cauchy-Dirichlet problem for first order nonlinear systems. (English summary) **99a:35025**
Díaz Díaz, Gregorio (*with* Rey, José María) Long-time behavior in some Hamilton-Jacobi equations. (Spanish) (*see* **99g:00036**)
Ha Tien Ngoan Hopf's formula for Lipschitz solutions of Hamilton-Jacobi equations with concave-convex Hamiltonian. (English summary) **99k:35024**
Jensen, Robert R. *see* **Barron, E. N.; et al.**, **99a:35024**
Krasil'nikov, P. S. On a Lagrange-Imshenetskiĭ theorem. (Russian) **99g:35026**
Liu, Wenxiong *see* **Barron, E. N.; et al.**, **99a:35024**
Marcellini, Paolo *see* **Dacorogna, Bernard**, **99a:35025**
Melikyan, A. A. ★ Generalized characteristics of first order PDEs. **99j:35020**
Nigam, S. D. (*with* Amaranath, T.) On compatible systems of first-order equations. (English summary)
Rey, José María *see* **Díaz Díaz, Gregorio**, (**99g:00036**)
Roquejoffre, Jean-Michel Comportement asymptotique des solutions d'équations de Hamilton-Jacobi monodimensionnelles. (English and French summaries) [Long-time behavior of the solutions of one-dimensional nonlinear Hamilton-Jacobi equations]
Sinaĭ, Yakov Grigor'evich Parabolic perturbations of Hamilton-Jacobi equations. (English summary) **99g:35027**
Yamane, Hideshi Nonlinear singular first-order partial differential equations whose characteristic exponents take positive integer values. (Japanese. Japanese summary) (*see* **99e:35002**)

Items with secondary classifications in 35F20

Arisawa, Mariko Ergodic problem for the Hamilton-Jacobi-Bellman equation. II. (English and French summaries) **99g:49029**
Bagagiolo, Fabio (*with* Bardi, Martino) Singular perturbation of a finite horizon problem with state-space constraints. (English summary) **99h:49040**
Bardi, Martino *see* **Bagagiolo, Fabio**, **99h:49040**
Bautin, S. P. (*with* Kazakov, A. L.) A Cauchy problem with initial data on different surfaces for a system with a singularity. (Russian) **99a:35059**
Byrnes, Christopher I. On the Riccati partial differential equation for nonlinear Bolza and Lagrange problems. (English summary) **99i:49022**
Dacorogna, Bernard A new approach to the existence of almost everywhere solutions of nonlinear PDEs. (English summary) (*see* **99a:00025**)
El Haddad, El Mahjoub Viscosity solutions of Hamilton-Jacobi equations in smooth Banach spaces. **99e:35240**
Ermolaev, E. A. (*with* Zhestkov, S. V.; Kuvshinov, V. I.) Classes of exactly solvable degenerate systems of universal nonlinear partial differential equations. (Russian. Russian summary) **99d:35011**
Gérard, Raymond (*with* Tahara, Hidetoshi) Formal power series solutions of nonlinear first order partial differential equations. **99d:35009**
Horie, Kazuo Homogenization of Hamilton-Jacobi equations with Neumann and Dirichlet boundary conditions. (*see* **99a:35003**)
Izumiya, Shyuichi (*with* Li, Bing[3]) Overdetermined systems of first order partial differential equations with singular solution. (English summary) **99i:35114**
— (*with* Kossioris, Georgios T.) Realization theorems of geometric singularities for Hamilton-Jacobi equations. **99b:58031**
— (*with* Sun, Wei Zhi) Geometric study of quasilinear first order partial differential equations. **99c:58017**
Jiang, Zheng Lu On the Liouville equation. (English summary) **99j:34081**
Kazakov, A. L. *see* **Bautin, S. P.**, **99a:35059**
Koike, Minoru Overdetermined systems of singular partial differential equations. **99b:35160**
Koike, Shigeaki A comparison result for the state constraint problem of differential games. **99e:49033**
Kossioris, Georgios T. *see* **Izumiya, Shyuichi**, **99b:58031**
Kuvshinov, V. I. *see* **Ermolaev, E. A.; et al.**, **99d:35011**
Lakhtin, A. S. (*with* Subbotin, A. I.) Multivalued solutions of first-order partial differential equations. (Russian. Russian summary) **99k:49067**
Li, Bing[3] *see* **Izumiya, Shyuichi**, **99i:35114**
Subbotin, A. I. *see* **Lakhtin, A. S.**, **99k:49067**
Sun, Wei Zhi *see* **Izumiya, Shyuichi**, **99c:58017**
Tahara, Hidetoshi *see* **Gérard, Raymond**, **99d:35009**
Temo Beko, De Loso Équation aux dérivées partielles de Hamilton-Jacobi pour le problème variationnel multidimensionnel. (English and French summaries) [Hamilton-Jacobi partial differential equations for the multidimensional variational problem] **99a:58166**
Zhestkov, S. V. *see* **Ermolaev, E. A.; et al.**, **99d:35011**

35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations

Arisawa, Mariko (*with* Tourin, Agnès) Regularizing effects for a class of first-order Hamilton-Jacobi equations. **99b:35020**
Bardi, Martino (*with* Faggian, Silvia) Hopf-type estimates and formulas for nonconvex nonconcave Hamilton-Jacobi equations. (English summary) **99e:35023**
Faggian, Silvia *see* **Bardi, Martino**, **99e:35023**
Tourin, Agnès *see* **Arisawa, Mariko**, **99b:35020**

Items with secondary classifications in 35F25

Adalsteinsson, D. (*with* Evans, Lawrence C.; Ishii, Hitoshi) The level set method for etching and deposition. (English summary) **99a:35257**
Augustynowicz, Antoni Existence and uniqueness of solutions for partial differential-functional equations of the first order with deviating argument of the derivative of unknown function. (English summary) **99f:35215**
Cannarsa, Piermarco (*with* Mennucci, Andrea; Sinestrari, Carlo) Regularity results for solutions of a class of Hamilton-Jacobi equations. (English summary) **99e:49032**
Evans, Lawrence C. *see* **Adalsteinsson, D.; et al.**, **99a:35257**
Ishii, Hitoshi *see* **Adalsteinsson, D.; et al.**, **99a:35257**
Lamb, Wilson *see* **McLaughlin, D. J.; et al.**, **99i:35167**
McBride, A. C. *see* **McLaughlin, D. J.; et al.**, **99i:35167**
McLaughlin, D. J. (*with* Lamb, Wilson; McBride, A. C.) An existence and uniqueness result for a coagulation and multiple-fragmentation equation. (English summary) **99i:35167**
Mennucci, Andrea *see* **Cannarsa, Piermarco; et al.**, **99e:49032**
Otto, Felix A regularizing effect of nonlinear transport equations. (English summary) **99a:35171**
Sampalmieri, Rosella Weak solutions of a conservation law with memory in several space variables. (English summary) **99k:35119**
Sinestrari, Carlo *see* **Cannarsa, Piermarco; et al.**, **99e:49032**

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Zagatti, Sandro On the Dirichlet problem for vectorial Hamilton-Jacobi equations. (English summary) **99k:35025**

Items with secondary classifications in 35F30

Agrafiotou, X. Methods for solving some systems of linear PDE's. (English and Romanian summaries)
Cardaliaguet, P. (*with* Dacorogna, Bernard; Gangbo, Wilfrid; Georgy, N.) Geometric restrictions for the existence of viscosity solutions. (English and French summaries) **99k:35023**
Dacorogna, Bernard *see* **Cardaliaguet, P.; et al.**, **99k:35023**
Gangbo, Wilfrid *see* **Cardaliaguet, P.; et al.**, **99k:35023**
Georgy, N. *see* **Cardaliaguet, P.; et al.**, **99k:35023**
Haidar, Nassar H. S. On a boundary-value problem posed by cancer therapy with neutron beams. (English summary) **99c:92022**
Wolenski, Peter R. (*with* Zhuang, Yu[2]) Proximal analysis and the minimal time function. (English summary) **99i:49032**
Zhuang, Yu[2] *see* **Wolenski, Peter R.**, **99i:49032**

35F99 None of the above, but in this section

Boussejra, Abdelhamid Solutions du système d'équations différentielles de Hua et intégrales de Poisson-Shilov des fonctions de carré intégrable sur la frontière de Shilov de la boule matricielle de rang deux. (English and French summaries) [Solutions of the Hua system of differential equations and the L^2 range of the Poisson-Shilov transform on the Shilov boundary of the matrix ball of rank two] **99j:35021**

Items with secondary classifications in 35F99

Bazhlekova, Emilia The abstract Cauchy problem for the fractional evolution equation. (English summary) **99m:34126**
Brandi, Primo (*with* Marcelli, Cristina) On mixed problem for first order partial differential functional equations. (English summary) **99j:35225**
Marcelli, Cristina *see* **Brandi, Primo**, **99j:35225**
Zheng, Shen Zhou Beltrami systems with double characteristic matrices and quasiregular mappings. (Chinese. English and Chinese summaries) **99d:35042**

35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

Miyake, Masatake Toeplitz operators in the analytic Goursat problem. **99a:35026**
Tyurin, V. M. On the invertibility of linear partial differential equations in some function spaces on $\mathbf{R}^n$. (Russian. Russian summary) **99i:35014**

Items with secondary classifications in 35G05

Abdinazarov, S. On fundamental solutions of a nonclassical equation. (Russian. English and Uzbek summaries)
Davydov, Alekseĭ Aleksandrovich (*with* Rosales Gonsales, Èrnesto) Smooth normal forms of folded resonance saddles and nodes and complete classification of generic linear second order PDE's on the plane. (English summary) **99g:35009**
Esposito, Vincenzo (*with* Miserendino, Doriano) Poisson operators for Grüschin [Grushin] differential operators with double characteristic and related continuity theorems. (English summary) **99b:35075**
Govda, Yu. Ī. On energy spaces of a positive-definite operator. (Ukrainian. English and Russian summaries)
Kaneko, Akira On continuation of Gevrey class solutions of linear partial differential equations. (English summary) **99b:35015**
Miserendino, Doriano *see* **Esposito, Vincenzo**, **99b:35075**
Rosales Gonsales, Èrnesto *see* **Davydov, Alekseĭ Aleksandrovich**, **99g:35009**
Tyurin, V. M. On some coercive inequalities for linear partial differential operators. (Russian. Russian summary) **99i:47089**

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Gerasimov, Yu. K. Generalization of the Hörmander inequality and the uniqueness of the solution of the Cauchy problem for linear partial differential equations with multiple characteristics. (Russian. Russian summary) **99j:35022**
Kurbonov, O. T. On the solvability of the Cauchy problem for an odd-order equation with multiple characteristics. (Russian. English and Uzbek summaries)

Items with secondary classifications in 35G10

Takeuchi, Jiro Résolubilité du problème de Cauchy pour certains opérateurs du type de Schrödinger. [Solvability of the Cauchy problem for certain Schrödinger operators] **99d:35034**

35G15 Boundary value problems for linear higher-order PDE

Akzhigitov, E. A. The Dirichlet problem for a class of degenerate equations of odd order. (Russian. English, Russian and Kazakh summaries)
Andryan, A. A. Boundary value problems in a strip in classes of polynomial growth. (Russian. English and Russian summaries) **99f:35018**
Avalishvili, G. *see* **Gordeziani, D.; et al.**, **99f:35019**
Dzhokhadze, O. M. General Darboux type problem for a third order equations with dominated lower terms. (English summary)
Gordeziani, D. (*with* Gordeziani, N.; Avalishvili, G.) Non-local boundary value problems for some partial differential equations. (English summary) **99f:35019**
Gordeziani, N. *see* **Gordeziani, D.; et al.**, **99f:35019**
Grisvard, Pierre Méthodes opérationnelles dans l'étude des problèmes aux limites. [Operator methods in the study of boundary value problems] (*see* **99f:00041**)
Laptev, A. Dirichlet and Neumann eigenvalue problems on domains in Euclidean spaces. (English summary) **99a:35027**

Items with secondary classifications in 35G15

Ivochkina, N. M. The existence of evolution of closed type. (English summary) **99b:35082**
Kandilakis, Dimitrios A. An existence result for nonlinear evolution equations of second order. (English summary) **99g:34128**
Makarov, R. N. *see* **Mikhaĭlov, G. A.**, **99m:65011**
Mikhaĭlov, G. A. (*with* Makarov, R. N.) Parametric differentiation and estimates for eigenvalues by the Monte Carlo method. (Russian. Russian summary) **99m:65011**
Oaku, Toshinori (*with* Yamazaki, Susumu) Higher-codimensional boundary value problems and F-mild microfunctions—local and microlocal uniqueness. (English summary) **99k:58169**
Rutkas, A. G. *see* **Vlasenko, L. A.**, **99c:34129**
Uspenskiĭ, S. V. (*with* Vasil'eva, E. N.) On the algebraic moments of the solution of the first initial-boundary value problem for the S. L. Sobolev equation in the case of special domains. (Russian) **99i:35113**
Vasil'eva, E. N. *see* **Uspenskiĭ, S. V.**, **99i:35113**
Vlasenko, L. A. (*with* Rutkas, A. G.) Uniqueness and approximation theorems for a degenerate operator-differential equation. (Russian) **99c:34129**
Yagdzhyan, K. A. A note on Lax-Mizohata theorem for quasilinear equations. **99g:35123**
Yamazaki, Susumu *see* **Oaku, Toshinori**, **99k:58169**

35G20 General theory of nonlinear higher-order PDE

Bakhvalov, N. S. (*with* Panasenko, G. P.; Štaras, Arūnas) The averaging method for partial differential equations (homogenization) and its applications [MR 91k:35061]. (*see* **99i:35002**)
Marti, Jean-André (*with* Nuiro, Silvère Paul; Valmorin, Vincent) A nonlinear Goursat problem with irregular data. (English summary) **99d:35025**
Mercier, Denis (*with* Nicaise, Serge) Existence results for general systems of differential equations on one-dimensional networks and prewavelets approximation. (English summary) **99b:35021**
Nicaise, Serge *see* **Mercier, Denis**, **99b:35021**
Nuiro, Silvère Paul *see* **Marti, Jean-André; et al.**, **99d:35025**
Panasenko, G. P. *see* **Bakhvalov, N. S.; et al.**, (**99i:35002**)
Štaras, Arūnas *see* **Bakhvalov, N. S.; et al.**, (**99i:35002**)
Valmorin, Vincent *see* **Marti, Jean-André; et al.**, **99d:35025**

Items with secondary classifications in 35G20

D'Acunto, Berardino (*with* De Angelis, Monica; Renno, Pasquale) Fundamental solution of a dissipative operator. (English and Italian summaries) **99e:35003**
De Angelis, Monica *see* **D'Acunto, Berardino; et al.**, **99e:35003**
Gérard, Raymond (*with* Tahara, Hidetoshi) Holomorphic and singular solutions of non-linear singular partial differential equations. II. **99a:35006**
Haraux, A. (*with* Jendoubi, Mohamed Ali) Convergence of solutions of second-order gradient-like systems with analytic nonlinearities. (English summary) **99a:35182**
Jendoubi, Mohamed Ali *see* **Haraux, A.**, **99a:35182**
Renno, Pasquale *see* **D'Acunto, Berardino; et al.**, **99e:35003**
Tahara, Hidetoshi *see* **Gérard, Raymond**, **99a:35006**
Trudinger, Neil S. Weak solutions of Hessian equations. (English summary) **99a:35077**

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Items with secondary classifications in 35G25

Bonilla, Luis L. (*with* Kindelan, Manuel; Moscoso, Miguel; Venakides, Stephanos) Periodic generation and propagation of traveling fronts in DC voltage biased semiconductor superlattices. (English summary) **99a:35217**
Chiusano, Laura (*with* Colli, Pierluigi) Positive kernel and zero time relaxation in a phase field model with memory. (English summary) **99f:45013**
Colli, Pierluigi *see* **Chiusano, Laura, 99f:45013**
Doppel, K. (*with* Herfort, W. N.; Pflüger, Klaus) A nonlinear beam equation arising in the theory of elastic bodies. (English summary) **99a:35252**
Herfort, W. N. *see* **Doppel, K.; et al., 99a:35252**
Kindelan, Manuel *see* **Bonilla, Luis L.; et al., 99a:35217**
Moscoso, Miguel *see* **Bonilla, Luis L.; et al., 99a:35217**
Pflüger, Klaus *see* **Doppel, K.; et al., 99a:35252**
Venakides, Stephanos *see* **Bonilla, Luis L.; et al., 99a:35217**

35G30 Boundary value problems for nonlinear higher-order PDE

Dacorogna, Bernard (*with* Marcellini, Paolo) Implicit second order partial differential equations. (English summary) **99m:35031**
Khoshimov, A. R. A problem for a third-order equation with a nonlinear boundary condition. (Russian. English and Uzbek summaries)
Klimov, V. S. (*with* Pavlenko, A. N.) Nontrivial solutions of boundary value problems with strong nonlinearities. (Russian. Russian summary) **99j:35023**
Marcellini, Paolo *see* **Dacorogna, Bernard, 99m:35031**
Pavlenko, A. N. *see* **Klimov, V. S., 99j:35023**

Items with secondary classifications in 35G30

Sokīl, B. Ī. On an asymptotic approximation of a solution of a boundary value problem for a nonlinear nonautonomous equation. (Ukrainian. English and Ukrainian summaries) **99m:35027**

35G99 None of the above, but in this section

Items with secondary classifications in 35G99

Doyle, P. W. Characteristic solutions of scalar Newton equations in one space dimension. (English summary) **99c:35009**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Abramyan, Anna V. (*with* Nogin, V. A.) Complex powers of second-order hypoelliptic operators with constant coefficients in L_p-spaces. (Russian. Russian summary) **99d:35026**
Arai, Hitoshi Generalized Dirichlet growth theorem and applications to hypoelliptic and $\overline{\partial}_b$ equations. (English summary) **99f:35020**
Bahouri, Hajer (*with* Gérard, Patrick; Xu, Chao-Jiang) Estimations de Strichartz généralisées sur le groupe de Heisenberg. [Generalized Strichartz estimates on the Heisenberg group] **99k:35026**
Beals, Richard William (*with* Gaveau, Bernard; Greiner, Peter C.) Uniforms hypoelliptic Green's functions. (English and French summaries) **99e:35024**
Ben Arous, Gerard (*with* Gradinaru, Mihai) Singularities of hypoelliptic Green functions. (English summary) **99e:35025**
Bergamasco, Adalberto P. (*with* Zuffi, Edna M.) On global hypoellipticity on the torus. (English summary) **99a:35028**
— Remarks about global analytic hypoellipticity. (English summary) **99m:35032**
Biroli, Marco Nonlinear subelliptic Schrödinger type problems. **99c:35031**
— Nonlinear Kato measures and nonlinear subelliptic Schrödinger problems. (English and Italian summaries) **99b:35022**
Brandolini, Luca (*with* Rigoli, Marco; Setti, Alberto G.) Positive solutions of Yamabe-type equations on the Heisenberg group. **99d:35027**
Christ, Michael Examples pertaining to Gevrey hypoellipticity. **99f:35021**
Cordaro, Paulo D. (*with* Himonas, Alexandros Alexandrou) Global analytic regularity for sums of squares of vector fields. (English summary) **99b:35023**
Cutrì, Alessandra Semilinear and integrodifferential problems for sub-Laplacians. (Italian)
Dencker, Nils (*with* Morimoto, Yoshinori; Morioka, Tatsushi) Hypoellipticity for operators of infinitely degenerate Egorov type. (*see* **99f:35004**)
ter Elst, A. F. M. (*with* Robinson, Derek W.; Sikora, Adam) Heat kernels and Riesz transforms on nilpotent Lie groups. (English summary) **99a:35029**
Gaveau, Bernard *see* **Beals, Richard William; et al., 99e:35024**
Gérard, Patrick *see* **Bahouri, Hajer; et al., 99k:35026**
Gianazza, Ugo (*with* Vespri, Vincenzo) Analysis on the Heisenberg group: a survey. **99m:35033**
Gradinaru, Mihai *see* **Ben Arous, Gerard, 99e:35025**
Greiner, Peter C. *see* **Beals, Richard William; et al., 99e:35024**
Himonas, Alexandros Alexandrou (*with* Petronilho, Gerson) Global hypoellipticity for sums of squares of vector fields of infinite type. (English and Portuguese summaries) **99m:35034**
— *see also* **Cordaro, Paulo D., 99b:35023**
Klingler, Andrew New derivation of the Heisenberg kernel. (English summary) **99h:35026**
Kohn, J. J. Hypoellipticity of some degenerate subelliptic operators. (English summary) **99m:35035**
Lanconelli, E. *see* **Uguzzoni, Francesco, 99h:35027**
Luo, Xue Bo Liouville's theorem for homogeneous differential operators. **99f:35022**
Ma, Yu Lan (*with* Zhong, Cheng Kui) Nonanalytic hypoellipticity of certain partial differential operators. (Chinese. English and Chinese summaries)
Markina, I. G. (*with* Vodop′yanov, S. K.) Fundamentals of the nonlinear potential theory for subelliptic equations. II. (English summary) **99c:35032**
Matsuzawa, Tadato Gevrey hypoellipticity for Grushin operators. **99a:35030**
Morimoto, Yoshinori (*with* Morioka, Tatsushi) The positivity of Schrödinger operators and the hypoellipticity of second order degenerate elliptic operators. (English summary) **99c:35033**
— *see also* **Dencker, Nils; et al., (99f:35004)**
Morioka, Tatsushi Hypoellipticité pour un certain opérateur à caractéristique double. [Hypoellipticity of a certain operator with double characteristic] **99d:35028**
— Une perturbation des opérateurs microhypoelliptiques. [A perturbation of microhypoelliptic operators] **99i:35015**
— *see also* **Morimoto, Yoshinori, 99c:35033** *and* **Dencker, Nils; et al., (99f:35004)**
Müller, Detlef Horst Differentialoperatoren zweiter Ordnung und harmonische Analysis. [Differential operators of second order and harmonic analysis] **99a:35031**
Niu, Peng Cheng (*with* Zhang, Ji Hui[1]) Estimates for eigenvalues of the bi-sub-Laplacian on the Heisenberg group. (Chinese. English and Chinese summaries) **99e:35026**
Nogin, V. A. *see* **Abramyan, Anna V., 99d:35026**
Parmeggiani, Alberto (*with* Xu, Chao-Jiang) The Dirichlet problem for sub-elliptic second order equations. (English summary) **99e:35027**
Petronilho, Gerson Global solvability on the torus for certain classes of operators in the form of a sum of squares of vector fields. **99f:35023**
— *see also* **Himonas, Alexandros Alexandrou, 99m:35034**
Ramaswamy, Sundararaja Dirichlet problem for some hypoelliptic operators. (English summary) **99a:35032**
Rigoli, Marco *see* **Brandolini, Luca; et al., 99d:35027**
Robinson, Derek W. *see* **ter Elst, A. F. M.; et al., 99a:35029**
Setti, Alberto G. *see* **Brandolini, Luca; et al., 99d:35027**
Sikora, Adam *see* **ter Elst, A. F. M.; et al., 99a:35029**
Uguzzoni, Francesco (*with* Lanconelli, E.) On the Poisson kernel for the Kohn Laplacian. (English and Italian summaries) **99h:35027**
Vespri, Vincenzo *see* **Gianazza, Ugo, 99m:35033**
Vodop′yanov, S. K. *see* **Markina, I. G., 99c:35032**
Xu, Chao-Jiang *see* **Parmeggiani, Alberto, 99e:35027** *and* **Bahouri, Hajer; et al., 99k:35026**
Zhang, Ji Hui[1] *see* **Niu, Peng Cheng, 99e:35026**
Zhong, Cheng Kui *see* **Ma, Yu Lan**
Zuffi, Edna M. *see* **Bergamasco, Adalberto P., 99a:35028**

Items with secondary classifications in 35H05

Adachi, Kenzō (*with* Cho, Hong Rae) Some Hölder estimates for $\overline{\partial}$ on convex domains in $\mathbf{C}^3$ with real analytic boundary. (English summary) **99b:32017**
— (*with* Hori, Hikaru) Note on the $\overline{\partial}$-problem on the complex ellipsoid. (English summary) **99b:32018**
Barbe, Jacques Asymptotiques de valeurs propres pour des hamiltoniens hypoelliptiques non homogènes. (English and French summaries) [Asymptotics of eigenvalues for hypoelliptic Hamiltonians without a homogeneity assumption] **99g:35095**
Beals, Richard William A note on fundamental solutions. **99m:35007**
Birindelli, Isabeau (*with* Capuzzo-Dolcetta, Italo; Cutrì, Alessandra) Indefinite semi-linear equations on the Heisenberg group: a priori bounds and existence. **99h:35045**
Biroli, Marco (*with* Mosco, Umberto; Tchou, N. A.) Homogenization by the Heisenberg group. (English summary) **99d:35020**
Boggiatto, Paolo (*with* Buzano, Ernesto; Rodino, Luigi) Spectral asymptotics for hypoelliptic operators. (English summary) **99a:35194**
Buzano, Ernesto *see* **Boggiatto, Paolo; et al., 99a:35194**
Capuzzo-Dolcetta, Italo *see* **Birindelli, Isabeau; et al., 99h:35045**
Chernikov, V. M. (*with* Vodop′yanov, S. K.) Sobolev spaces and hypoelliptic equations. I. (English summary) **99c:46026a**
— (*with* Vodop′yanov, S. K.) Sobolev spaces and hypoelliptic equations. II. (English summary) **99c:46026b**
Cho, Hong Rae *see* **Adachi, Kenzō, 99b:32017**
Christ, Michael (*with* Li, Song-Ying) On analytic solvability and hypoellipticity for $\overline{\partial}$ and $\overline{\partial}_b$. **99c:32021**
Cordaro, Paulo D. Global hypoellipticity for $\overline{\partial}_b$ on certain compact three-dimensional CR manifolds. (English summary) **99a:32014**
Cutrì, Alessandra *see* **Birindelli, Isabeau; et al., 99h:35045**
Danielli, Donatella (*with* Garofalo, Nicola) Geometric properties of solutions to subelliptic equations in nilpotent Lie groups. **99a:22015**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Spectral estimates for positive Rockland operators. (English summary) **99m:22004**
— (*with* Robinson, Derek W.) Weighted subcoercive operators on Lie groups. (English summary) **99h:47055**
Francsics, Gábor (*with* Hanges, Nicholas) Analytic regularity for the Bergman kernel. (English summary) **99j:32028**
Garofalo, Nicola *see* **Danielli, Donatella, 99a:22015**
Grande, R. (*with* Santucci, P.) Anisotropic Sobolev-Besicovitch spaces and a semielliptic differential equation. (English and Italian summaries) **99a:46059**
Hanges, Nicholas *see* **Francsics, Gábor, 99j:32028**
He, Chun Xiong *see* **Yu, Jian Ning, 99j:35002**
Hebisch, Waldemar On operators satisfying the Rockland condition. (English summary) **99e:22016**
Hori, Hikaru *see* **Adachi, Kenzō, 99b:32018**
Huang, Yu-Tai (*with* Ibbotson, J.; Zielezny, Z.) An application of regularly varying functions. (English summary) **99m:46100**
Ibbotson, J. *see* **Huang, Yu-Tai; et al., 99m:46100**
Jost, Jürgen (*with* Xu, Chao-Jiang) Subelliptic harmonic maps. (English summary) **99a:58047**
Krylov, Nicolai V. Hölder continuity and L_p estimates for elliptic equations under general Hörmander's condition. (English summary) **99b:35077**
Li, Song-Ying *see* **Christ, Michael, 99c:32021**
Luo, Xue Bo (*with* Niu, Peng Cheng) The spectrum of the sub-Laplacian operator on a two-step nilpotent Lie group. (Chinese. English and Chinese summaries) **99e:22018**
— (*with* Niu, Peng Cheng) Eigenvalue problems for operators that are sums of squares of vector fields. (Chinese. English and Chinese summaries) **99c:35175**

Markina, I. G. Classification of sub-Riemannian manifolds. (Russian. Russian summary) **99e:31010**
— *see also* **Vodop'yanov, S. K., 99k:31009**
Matsuzawa, Tadato Gevrey hypoellipticity of the Grushin operators and the heat kernel method. (English summary) **99f:35239**
— Optimal Gevrey exponents for some degenerate elliptic operators. (English summary) **99m:35090**
Michel, Joachim (*with* Shaw, Mei-Chi) Subelliptic estimates for the $\overline{\partial}$-Neumann operator on piecewise smooth strictly pseudoconvex domains. **99b:32019**
Mosco, Umberto *see* **Biroli, Marco; et al., 99d:35020**
Niu, Peng Cheng *see* **Luo, Xue Bo, 99c:35175** *and* **99e:22018**
Pilipović, Stevan S. Linear equations with singular coefficients and nonlinear equations with non-Lipschitz nonlinearities. (English summary) **99d:35024**
Polidoro, Sergio (*with* Ragusa, Maria Alessandra) Sobolev-Morrey spaces related to an ultraparabolic equation. (English summary) **99e:35122**
Qu, Chang Zheng Asymptotics of heat kernels and Green kernels on the Heisenberg group. (Chinese. English and Chinese summaries) **99m:58185**
Ragusa, Maria Alessandra *see* **Polidoro, Sergio, 99e:35122**
Robinson, Derek W. *see* **ter Elst, A. F. M., 99h:47055** *and* **99m:22004**
Rodino, Luigi *see* **Boggiatto, Paolo; et al., 99a:35194**
Santucci, P. *see* **Grande, R., 99a:46059**
Shaw, Mei-Chi *see* **Michel, Joachim, 99b:32019**
Tchou, N. A. Homogenization for the Heisenberg operator. (English summary) **99d:35019**
— *see also* **Biroli, Marco; et al., 99d:35020**
Vodop'yanov, S. K. (*with* Markina, I. G.) Foundations of the nonlinear potential theory of subelliptic equations. (Russian) **99k:31009**
— *see also* **Chernikov, V. M., 99c:46026a** *and* **99c:46026b**
Xu, Chao-Jiang *see* **Jost, Jürgen, 99a:58047**
Yu, Jian Ning (*with* He, Chun Xiong) Explicit fundamental solutions for a class of nonhomogeneous invariant differential operators on the Heisenberg group H_{2n+1}. (Chinese. English and Chinese summaries) **99j:35002**
Zhang, Qi S. The critical exponent of a reaction diffusion equation on some Lie groups. **99e:35114**
Zielezny, Z. *see* **Huang, Yu-Tai; et al., 99m:46100**

35Jxx Partial differential equations of elliptic type [see also 58G05, 58G10]

Bandle, Catherine (*with* Flucher, Martin) Table of inequalities in elliptic boundary value problems. (English summary) **99h:35028**
Chen, Ya-Zhe (*with* Wu, Lan-Cheng) ★ Second order elliptic equations and elliptic systems. (English summary) **99i:35016**
Flucher, Martin *see* **Bandle, Catherine, 99h:35028**
(Hu, Bei) *see* **Chen, Ya-Zhe, 99i:35016**
Malgrange, Bernard Problèmes aux limites elliptiques [MR **31** #498]. [Elliptic boundary value problems] (*see* **99f:00040**)
Wu, Lan-Cheng *see* **Chen, Ya-Zhe, 99i:35016**

Items with secondary classifications in 35Jxx

Courrège, Philippe Problèmes aux limites elliptiques et principe du maximum. [Elliptic boundary value problems and maximum principle] (*see* **99f:00041**)
Krylov, Nicolai V. ★ Лекции по эллиптическим и параболическим уравнениям в пространствах Гёльдера. (Russian. Russian summary) [Lectures on elliptic and parabolic equations in Hölder spaces] **99g:35002**
Laptev, A. Dirichlet and Neumann eigenvalue problems on domains in Euclidean spaces. (English summary) **99a:35027**
Li, Zi Cai ★ Combined methods for elliptic equations with singularities, interfaces and infinities. (English summary) **99i:65001**
Mitrović, Dragiša (*with* Žubrinić, Darko) ★ Fundamentals of applied functional analysis. (English summary) **99f:46001**
Nachbin, Léopoldo Régularité des solutions des équations différentielles elliptiques (d'après J. Moser). [Regularity of the solutions of elliptic differential equations (after J. Moser)] (*see* **99f:00040**)
(Rozhkovskaya, Tamara) *see* **Krylov, Nicolai V., 99g:35002**
(Ural'tseva, N. N.) *see* **Krylov, Nicolai V., 99g:35002**
Žubrinić, Darko *see* **Mitrović, Dragiša, 99f:46001**

35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

Ammari, Habib Scattering of waves by thin periodic layers at high frequencies using the on-surface radiation condition method. (English summary) **99i:35017**
Arnaudov, Ya. N. (*with* Georgiev, Vladimir; Venkov, Georgy P.) Atkinson-Wilcox decomposition for small permutation of the sphere. (*see* **99m:00024**)
Barcelo, J. A. (*with* Ruiz, Alberto[1]; Vega, Luis) Weighted estimates for the Helmholtz equation and some applications. (English summary) **99a:35033**
Bogachev, T. V. Some special functions that arise in connection with the equation $\Delta U + l^2(\varphi)U = 0$. (Russian. English and Russian summaries) **99j:35024**
Bugir, M. K. Nonoscillation of solutions of partial differential equations on manifolds of constant curvature, and mean-value theorems. (Russian. Russian summary) **99a:35034**
Chandler-Wilde, Simon N. (*with* Zhang, Bo[1]) A uniqueness result for scattering by infinite rough surfaces. (English summary) **99i:35018**
— *see also* **Zhang, Bo[1], 99i:35019**
Cheng, Jin[2] (*with* Yamamoto, Masahiro) Unique continuation on a line for harmonic functions. (English summary) **99d:35029**
— *see also* **Xu, Ding Hua; et al., 99j:35027**
Cranston, Michael (*with* Li, Yi[2]) Eigenfunction and harmonic function estimates in domains with horns and cusps. **99f:35024**
Cureton, L. M. (*with* Kuttler, J. R.) Eigenvalues of the Laplacian on regular polygons and polygons resulting from their dissection. (English summary) **99j:35025**
Cutzach, Pierre-Marie (*with* Luneville, Eric) Diffraction d'ondes acoustiques par un guide semi-infini. (English and French summaries) [Acoustic wave scattering by a semi-infinite waveguide]
Dermenjian, Yves (*with* Durand, Marc; Iftimie, Viorel) Spectral analysis of an acoustic multistratified perturbed cylinder. (English summary) **99a:35035**
Durand, Marc *see* **Dermenjian, Yves; et al., 99a:35035**
Dynnikov, I. A. *see* **Novikov, Sergeĭ Petrovich, 99e:35029**
Filinovskiĭ, Aleksei V. Integral estimates for solutions of the Helmholtz equation in unbounded domains. (Russian. Russian summary) **99b:35024**
Fujita, Keiko *see* **Morimoto, Mitsuo, 99f:35025**
Georgiev, Vladimir *see* **Arnaudov, Ya. N.; et al., (99m:00024)**
Grigor'ev, Yu. M. (*with* Naumov, V. V.) On mean value theorems for Helmholtz and Lamé equations. (Russian)
Grisvard, Pierre Problèmes aux limites dans des domaines avec points de rebroussement. [Boundary value problems in domains with cusps] **99c:35034**
Groves, Mark D. Examples of embedded eigenvalues for problems in acoustic waveguides. (English summary) **99b:35025**
Iftimie, Viorel *see* **Dermenjian, Yves; et al., 99a:35035**
Ikawa, Mitsuru Scattering by several convex bodies. (Japanese) (*see* **99m:35003**)
Ilyin, Dmitry On constructing the 3-weak solution for some elliptic equation with generalized coefficients. (English summary) **99m:35036**
Kadowaki, Mitsuteru Low energy resolvent estimates for acoustic propagators in perturbed stratified media. (Japanese) (*see* **99a:00049**)
Keller, Joseph B. Singularities at the tip of a plane angular sector. (English summary) **99k:35027**
Kress, Rainer (*with* Rundell, William) Inverse obstacle scattering using reduced data. (English summary) **99h:35029**
Krutitskiĭ, P. A. A mixed problem for the Laplace equation outside cuts on the plane. (Russian. Russian summary) **99h:35030**
Kuttler, J. R. *see* **Cureton, L. M., 99j:35025**
Labreuche, Christophe Purely imaginary resonant frequencies for a lossy inhomogeneous medium. (English summary) **99k:35028**
Li, Ming Zhong *see* **Xu, Ding Hua; et al., 99j:35027**
Li, Yi[2] *see* **Cranston, Michael, 99f:35024**
Linton, C. M. The Green's function for the two-dimensional Helmholtz equation in periodic domains. (English summary) **99d:35030**
Lozhechko, V. V. (*with* Shestopalov, Yu. V.) A variational method for solving diffraction problems in domains with noncompact boundaries. (Russian. Russian summary) **99c:35035**
Luneville, Eric *see* **Cutzach, Pierre-Marie**
Makrakis, G. N. *see* **Ramm, Alexander G., 99j:35026**
Meister, Erhard (*with* Penzel, F.; Speck, F.-O.; Teixeira, F. S.) Some interior and exterior boundary-value problems for the Helmholtz equation in a quadrant. (English summary) **99e:35028**
Morimoto, Mitsuo (*with* Fujita, Keiko) Eigen functions of the Laplacian of exponential type. **99f:35025**
Naumov, V. V. *see* **Grigor'ev, Yu. M.**
Novikov, Sergeĭ Petrovich (*with* Dynnikov, I. A.) Discrete spectral symmetries of small-dimensional differential operators and difference operators on regular lattices and two-dimensional manifolds. (Russian) **99e:35029**
Ohnaka, Kohzaburo *see* **Yamatani, Katsu**
Penzel, F. *see* **Meister, Erhard; et al., 99e:35028**
Práger, Milan Eigenvalues and eigenfunctions of the Laplace operator on an equilateral triangle. (English summary) **99c:35036**
Ramm, Alexander G. (*with* Makrakis, G. N.) Scattering by obstacles in acoustic waveguides. (English summary) **99j:35026**
— Necessary and sufficient condition for a domain, which fails to have Pompeiu property, to be a ball. (English summary) **99f:35026**
Rubin, Boris L^p-properties of solutions of the singular Helmholtz equation in the half-space. (English summary) **99m:35037**
Ruiz, Alberto[1] *see* **Barcelo, J. A.; et al., 99a:35033**
Rundell, William *see* **Kress, Rainer, 99h:35029**
Rylko, Natalia (*with* Żebrowski, Andrzej) Boundary value problems for the Laplace equation, the Poincare series and the method of Schwarz.
Shestopalov, Yu. V. *see* **Lozhechko, V. V., 99c:35035**
Speck, F.-O. *see* **Meister, Erhard; et al., 99e:35028**
Taylor, Michael E. Estimates on scattered waves. (English summary) **99a:35036**
Teixeira, F. S. *see* **Meister, Erhard; et al., 99e:35028**
Tolmasky, Carlos F. Exponentially growing solutions for nonsmooth first-order perturbations of the Laplacian. (English summary) **99d:35031**
Uguzzoni, Francesco A Liouville-type theorem on halfspaces for the Kohn Laplacian. (English summary) **99b:35026**
Vasil'ev, V. B. Integral equations associated with boundary value problems for the Laplace equation in a plane angle. (Russian. Russian summary) **99a:35037**
Vega, Luis *see* **Barcelo, J. A.; et al., 99a:35033**
Venkov, Georgy P. *see* **Arnaudov, Ya. N.; et al., (99m:00024)**
Xu, Ding Hua (*with* Cheng, Jin[2]; Li, Ming Zhong) On the stability estimation of analytic continuation for potential field. (Chinese. English and Chinese summaries) **99j:35027**
Yamamoto, Masahiro *see* **Cheng, Jin[2], 99d:35029**
Yamatani, Katsu (*with* Ohnaka, Kohzaburo) A reliable estimation method of a dipole for three-dimensional Poisson equation. (English summary)
Yao, De Zhong Simplification of the integral solution of the wave equation and Huygens' principle. (Chinese. English and Chinese summaries)
Yoshitomi, Kazushi Band gap of the spectrum in periodically curved quantum waveguides. **99a:35038**
Zakharov, A. N. On an estimate for the closeness of solutions of the Cauchy problem for the Laplace operator. (Russian. Russian summary) **99f:35027**
Żebrowski, Andrzej *see* **Rylko, Natalia**

Zhang, Bo[1] (*with* Chandler-Wilde, Simon N.) Acoustic scattering by an inhomogeneous layer on a rigid plate. (English summary) **99i:35019**
— *see also* **Chandler-Wilde, Simon N., 99i:35018**

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Akishin, P. G. (*with* Vinitskiĭ, S. I.) Green function method for plane periodical Helmholtz problem. (English summary) (*see* **99m:81006**)
Aksenova, E. V. (*with* Romanov, V. P.; Val′kov, A. Yu.) Green's function of wave field in media with one-dimensional large-scale periodicity. (English summary) **99k:78019**
Alvino, Angelo (*with* Ferone, Vincenzo; Trombetti, Guido) On the properties of some nonlinear eigenvalues. (English summary) **99d:35119**
Ammari, Habib (*with* Nédélec, Jean-Claude) Full low-frequency asymptotics for the reduced wave equation. (English summary)
Angell, Thomas S. (*with* Kleinman, Ralph E.; Vainberg, B. R.) Asymptotic methods for an optimal antenna problem. (English summary) **99f:49058**
Annaby, Mahmoud H. One and multidimensional sampling theorems associated with Dirichlet problems. (English summary) **99m:94004**
Antoine, Xavier A numerical study of a scattering problem involving a generalized impedance boundary condition using the on-surface radiation condition method. (English summary) (*see* **99d:00023**)
Aparicio, N. D. (*with* Pidcock, M. K.) On a class of free boundary problems for the Laplace equation in two dimensions. (English summary) **99a:35274**
Athanasiadis, Christodoulos (*with* Ramm, Alexander G.; Stratis, Ioannis G.) Inverse acoustic scattering by a layered obstacle. (English summary) **99d:76090**
— On the acoustic scattering amplitude for a multi-layered scatterer. (English summary) **99e:76102**
Atkinson, Kendall E. The numerical solution of boundary integral equations. (English summary) **99g:65117**
Babich, Vasilii M. The higher-dimensional WKB method or ray method. Its analogues and generalizations [MR 91i:35143]. (*see* **99i:35002**)
Bao, Gang[1] On the relation between the coefficients and solutions for a diffraction problem. (English summary) **99k:78026**
Baratchart, L. (*with* Leblond, Juliette; Mandréa, F.; Saff, Edward B.) How can the meromorphic approximation help to solve some 2D inverse problems for the Laplacian? (English summary) **99j:35228**
Bătineţu-Giurgiu, Maria A Riccati type system attached to a boundary control problem for Laplace equation.
Bazaliĭ, B. V. On the Stefan problem for the Laplace equation. (Russian. English summary) **99a:35275**
Benbernou, Mejdoub Spectral analysis of the acoustic propagator in a multistratified domain. (English summary) **99i:47085**
Bendali, Abderrahmane (*with* Vernhet, Laurent) Boundary element solution of a scattering problem involving a generalized impedance boundary condition. (English summary) (*see* **99d:00023**)
Benkiran, Taoufiq Étude d'un système de contrôle optimal perturbé non classique. (English and French summaries) [Study of a nonclassical perturbed optimal control system] **99c:49026**
Berenstein, Carlos A. (*with* Chang, Der-Chen E.; Wang, Emei) Determining a surface breaking crack from steady-state electrical boundary measurements—reconstruction method. (English summary) **99i:78014**
Berrone, Lucio R. On a conjecture relative to the maximum of harmonic functions on convex domains: unbounded domains. (English summary) **99h:31007**
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— (*with* Pardo San Gil, Rosa) Invertibility of linear noncooperative elliptic systems. **99b:34046**
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Ramos, Fernando Manuel *see* **Muniz, Wagner Barbosa; et al., 99k:65086**
Rodrigues, José-Francisco (*with* Zal'tsman, B. B.) Regular solutions of a Stefan problem in

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Rubinstein, I. (*with* Zal′tsman, B. B.) Morphological instability of similarity solution to the Stefan problem with undercooling and surface tension. (English summary) **99d:35021**

Sadallah, Boubaker-Khaled Existence de la solution de l'équation de la chaleur dans un disque. (English and French summaries) [Existence of the heat equation solution in a disc] **99i:35060**

Sánchez, Eva *see* **Arino, Ovide; et al., 99c:92034**

Schmidt-Lainé, Claudine *see* **Brauner, Claude-Michel; et al., 99c:35262**

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Stroock, Daniel W. (*with* Turetsky, James) Upper bounds on derivatives of the logarithm of the heat kernel. (English summary) **99k:58174**

Takhirov, Zh. O. On some parabolic problems with a free boundary. (Russian. English and Uzbek summaries) **99f:35234**

Tessitore, Gianmario (*with* Zabczyk, Jerzy) Invariant measures for stochastic heat equations. (English summary) **99k:60167**

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Tran Thi Le (*with* Nguyen, Van Nhan; Dinh Ngoc Thanh; Dang Duc Trong) A moment approach to some problems in heat conduction. (English summary) (*see* **99i:00026**)

Turetsky, James *see* **Stroock, Daniel W., 99k:58174**

Vasil′ev, A. N. (*with* Mikhaĭlov, A. P.) Self-similar solutions of the Cauchy problem for the nonlinear heat equation. (Russian. Russian summary) **99c:35104**

Vessella, Sergio Stability estimates in an inverse problem for a three-dimensional heat equation. (English summary) **99d:35178**

Watson, Neil A. Initial limits of temperatures on arbitrary open sets. (English summary) **99j:31006**

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Yang, Feng Lin (*with* Zhang, Da Li; Gao, Guang Hong) The Stefan problem for the heat-conduction equation with an unknown coefficient and a nonlinear boundary condition. (Chinese. English and Chinese summaries)

Zabczyk, Jerzy *see* **Tessitore, Gianmario, 99k:60167**

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Zuazua, Enrique Null controllability of the heat equation in thin domains. (English summary) **99i:93010**

— *see also* **López, Antonio, 99h:93019**

35K10 General theory of second-order, parabolic equations

Abdullaev, Ugur G. Instantaneous shrinking of the support of a solution of a nonlinear degenerate parabolic equation. (Russian. Russian summary) **99c:35086**

Almenar, P. (*with* Goberna, D.; Jódar, Lucas) Constructive approximations of mixed variable coefficient diffusion problems. (English summary) **99m:35093**

Borşa, Emilia *see* **Petrila, Titus, (99i:00014)**

Caffarelli, Luis A. (*with* Kenig, Carlos E.) Gradient estimates for variable coefficient parabolic equations and singular perturbation problems. (English summary) **99b:35081**

Camacho, Javier (*with* Jódar, Lucas; Navarro, E.) Exact solution of coupled mixed diffusion problems with coupled boundary conditions. (English summary) **99e:35088**

Chen, Xu-Yan A strong unique continuation theorem for parabolic equations. **99h:35078**

Goberna, D. *see* **Almenar, P.; et al., 99m:35093** *and* **Jódar, Lucas**

Guidetti, Davide (*with* Piskarëv, S. I.) Stability of Rothe's scheme and maximal regularity for parabolic equations in $C^\theta(\overline{\Omega})$. **99i:35056**

Jódar, Lucas (*with* Goberna, D.) Uniqueness of solutions for systems of separated variable coefficient partial differential equations. (English summary)

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Kenig, Carlos E. *see* **Caffarelli, Luis A., 99b:35081**

Krylov, George (*with* Robnik, Marko) On the Green function of linear evolution equations for a region with a boundary. (English summary)

Landim, C. (*with* Olla, Stefano; Yau, Horng-Tzer) Convection-diffusion equation with space-time ergodic random flow. (English summary) **99j:35084**

Liu, Zu Han Existence of global classical solutions of a generalized mean curvature flow equation. (Chinese. English and Chinese summaries) **99k:35075**

Menárguez, M. Trinidad (*with* Pérez, Sonsoles; Soria, Fernando) Pointwise and norm estimates for operators associated with the Ornstein-Uhlenbeck semigroup. (English and French summaries) **99f:35070**

Navarro, E. *see* **Camacho, Javier; et al., 99e:35088**

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Robnik, Marko *see* **Krylov, George**

Safonov, Mikhail Estimates near the boundary for solutions of second order parabolic equations. (English summary) **99h:35079**

Simonov, Nikolai A. Stochastic iterative methods for solving equations of parabolic type. (Russian. Russian summary) **99c:35087**

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Alikakos, Nicholas D. (*with* Fusco, Giorgio) Slow dynamics for the Cahn-Hilliard equation in higher space dimensions: the motion of bubbles. (English summary) **99d:35013**

Andrews, Ben Evolving convex curves. (English summary) **99k:58038**

Anikonov, Yu. E. (*with* Vishnevskiĭ, M. P.) Formulas in an inverse problem for an evolution equation. (Russian. Russian summary) **99g:35139**

Athanasopoulos, I. (*with* Caffarelli, Luis A.; Salsa, Sandro) Phase transition problems of parabolic type: flat free boundaries are smooth. **99b:35220**

Baderko, Elena A. Moving boundary problems for parabolic equations. (English summary) (*see* **99k:73001**)

Bainov, Drumi Dimitrov (*with* Minchev, Emil) Forced oscillations of solutions of parabolic equations of neutral type with maxima. (English summary) (*see* **99d:00026**)

— (*with* Minchev, Emil) On the stability of solutions of impulsive parabolic differential-functional equations. (English summary) (*see* **99d:00026**)

Ben-Artzi, Matania (*with* Devinatz, A.) Regularity and decay of solutions to the Stark evolution equation. (English summary) **99c:35026**

Bizhanova, G. I. On the solvability of multidimensional single-phase problems with free boundaries in Hölder spaces. (Russian. English, Russian and Kazakh summaries) **99j:35234**

Caffarelli, Luis A. *see* **Athanasopoulos, I.; et al., 99b:35220**

Cao, Yanzhao (*with* Gunzburger, Max D.; Turner, James C., Jr.) On exact controllability and convergence of optimal controls to exact controls of parabolic equations. (English summary) **99e:93006**

Cerrai, Sandra Some results for second order elliptic operators having unbounded coefficients. (English summary) **99k:35030**

Chapko, Roman (*with* Kress, Rainer; Yoon, Jeong-Rock) On the numerical solution of an inverse boundary value problem for the heat equation. (English summary) **99i:65099**

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Coulhon, Thierry Large time behaviour of heat kernels on Riemannian manifolds: fast and slow decays. (English summary) **99i:58143**

Cui, Bao Tong (*with* Li, Wei Nian) A necessary and sufficient condition for oscillation of parabolic equations with several delays. (English summary)

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Dzhenaliev, M. T. (*with* Kasymbekova, A. S.; Smatov, K. S.) The problem of the control of coefficients with loaded summands for a parabolic equation. (Russian. English, Russian and Kazakh summaries)

Eidelman, Samuil D. *see* **Zhitarashu, N. V., 99g:35024**

El Badia, A. Coefficient identification in some partial differential equations from partial boundary measurements. (English summary) **99k:35191**

Evans, Steven N. (*with* Williams, Ruth J.) Transition operators of diffusions reduce zero-crossing. (English summary) **99f:60140**

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Gasanov, A. D. On the boundary behavior and interior smoothness of solutions of the Kolmogorov equation. (Russian. English and Azerbaijani summaries) **99m:35134**

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— The inverse problem of determining the heat source power for a parabolic equation under arbitrary boundary conditions. (English summary) **99b:35212**

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King, Andrew C. (*with* Needham, D. J.; Scott, N. H.) The effects of weak hyperbolicity on the diffusion of heat. (English summary) **99j:35013**

Koněnkov, A. N. On the behavior of the derivative of a parabolic double-layer potential near the boundary. (Russian. Russian summary) **99j:65169**

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Minchev, Emil *see* **Bainov, Drumi Dimitrov, (99d:00026)** *and* **(99d:00026)**

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Omel′yanov, G. A. (*with* Trushkov, V. V.) Geometric correction in the problem of the motion of a free boundary. (Russian) **99c:35264**

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Peng, Qiu-Liang *see* **Freedman, H. I., 99m:92029**

Pichór, Katarzyna (*with* Rudnicki, Ryszard) Stability of Markov semigroups and applications to parabolic systems. (English summary) **99a:47066**

Röckner, Michael (*with* Zhang, Tu Sheng) Convergence of operators semigroups generated by elliptic operators. **99d:31005**

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Yu, Wanghui Regularity of the weak solution of multi-dimensional Stefan-Signorini problem. (English summary) **99a:35281**
— A Stefan-Signorini problem with Gibbs-Thomson law. (English summary) **99a:73032**
Zhang, Tu Sheng *see* **Röckner, Michael, 99d:31005**
Zhitarashu, N. V. (*with* Eidelman, Samuil D.) On the asymptotic representation and stabilization of solutions of some model boundary value problems and conjugation problems for a parabolic system of second-order equations. (Russian. English, Russian and Moldavian summaries) **99g:35024**
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35K15 Initial value problems for second-order, parabolic equations

Ando, Hiroshi The Cauchy problem for Schrödinger type equation with degeneracy. **99a:35107**
Cónsul, Neus On equilibrium solutions of diffusion equations with nonlinear boundary conditions. (English summary) (*see* **99d:00015**)
Dong, Pi Ming A note on Hölder continuity of the gradient of the solutions for $u_t = \operatorname{div}(|\nabla u|^{p-2}\nabla u)$. (English and Chinese summaries) **99e:35089**
Ishige, Kazuhiro An intrinsic metric approach to uniqueness of nonnegative solutions of parabolic equations. (English summary) **99e:35090**
— (*with* Murata, Minoru) An intrinsic metric approach to uniqueness of the positive Cauchy problem for parabolic equations. **99c:35088**
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Yang, Hongtao A new analysis of Volterra-Fredholm boundary integral equations of second kind. (English summary) **99c:35089**

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Boutet de Monvel, Louis (*with* Khruslov, Evgenii Ya.) Averaging of a diffusion equation on Riemannian manifolds of complex microstructure. (Russian. Russian summary) **99j:58198**
Cai, Kairen Mean curvature flow of hypersurfaces in Einsteinian manifold. (English and Chinese summaries) **99k:53076**
Díaz Díaz, Jesús Ildefonso (*with* Nagai, Toshitaka; Rakotoson, Jean Michel) Symmetrization techniques on unbounded domains: application to a chemotaxis system on $\mathbf{R}^N$. **99c:35242**
Dynkin, E. B. Semilinear parabolic equations, diffusions, and superdiffusions. (English summary) **99h:60155**
Kajitani, Kunihiko The Cauchy problem for Schrödinger type equations with variable coefficients. **99a:35043**
Khruslov, Evgenii Ya. *see* **Boutet de Monvel, Louis, 99j:58198**
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Stroock, Daniel W. (*with* Turetsky, James) Short time behavior of logarithmic derivatives of the heat kernel. (English summary) **99b:58225**
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35K20 Boundary value problems for second-order, parabolic equations

Abdinazarov, S. (*with* Khashimov, A. R.) A nonlocal problem for a third-order equation with multiple characteristics. (Russian. English and Uzbek summaries)
Alekseeva, S. M. (*with* Yurchuk, Nikolai I.) The quasi-reversibility method for the problem of the control of an initial condition for the heat equation with an integral boundary condition. (Russian. Russian summary) **99j:35085**
Baderko, Elena A. Schauder estimates for oblique derivative problems. (English and French summaries) **99j:35086**
Barbu, Viorel (*with* Favini, Angelo) On some degenerate parabolic problems. (English summary) **99c:35090**
Berrone, Lucio R. A property of the maximum temperature in a mixed initial-boundary value problem for the heat equation. (English summary) **99a:35108**
Bouziani, Abdelfatah Solution forte d'un problème mixte avec condition intégrale pour une classe d'équations paraboliques. (English, French and Arabic summaries) [Strong solutions of a mixed problem with an integral condition for a class of parabolic equations] **99a:35109**
Eidelman, Samuil D. (*with* Zhitarashu, N. V.) ★ Parabolic boundary value problems. (English summary) **99h:35080**
Fabes, Eugene B. (*with* Safonov, Mikhail) Behavior near the boundary of positive solutions of second order parabolic equations. **99d:35071**
Favini, Angelo *see* **Barbu, Viorel, 99c:35090**
Garroni, M. G. (*with* Solonnikov, Vsevolod A.; Vivaldi, M. A.) Existence and regularity results for oblique derivative problems for heat equations in an angle. (English summary) **99a:35110**
Giorgi, Claudio (*with* Pata, Vittorino; Marzocchi, Alfredo) Asymptotic behavior of a semilinear problem in heat conduction with memory. (English summary) **99h:35081**
Grimaldi Piro, Anna (*with* Ragnedda, Francesco) Area integral estimates for solutions of parabolic equations. **99f:35071**
(Iacob, Andrei) *see* **Eidelman, Samuil D., 99h:35080**
Ikeda, Nobuyuki (*with* Kusuoka, Shigeo) Short time asymptotics for fundamental solutions of heat equations with boundary conditions. (English summary) **99k:35076**
Ivochkina, N. M. (*with* Ladyzhenskaya, O. A.) Estimation of the second derivatives on the boundary for surfaces evolving under the action of their principal curvatures. (Russian. Russian summary) **99c:35091**
Kahane, Charles S. A gradient estimate for solutions of the heat equation. **99k:35077**
Kamynin, L. I. One-sided estimates for the solution of the second and third boundary value problems (with a directional derivative) for a second-order strongly dissipative parabolic equation. (Russian. Russian summary) **99i:35057**
Khashimov, A. R. *see* **Abdinazarov, S.**
Konënkov, A. N. The Green function of the first boundary value problem for a parabolic equation in domains with curvilinear lateral boundaries. (Russian. Russian summary)
Kresin, G. I. (*with* Maz'ya, Vladimir G.) On the maximum modulus principle for linear parabolic systems with zero boundary data. (English summary) **99m:35094**
Kusuoka, Shigeo *see* **Ikeda, Nobuyuki, 99k:35076**
Kuznetsov, Sergei E. Removable lateral singularities of semilinear parabolic PDEs and Besov capacities. (English summary) **99m:35095**
Ladyzhenskaya, O. A. *see* **Ivochkina, N. M., 99c:35091**
Maĭsuradze, M. G. On the uniqueness of the solution of a second-order parabolic equations with growing coefficients. (Georgian. English and Russian summaries)
Marzocchi, Alfredo *see* **Giorgi, Claudio; et al., 99h:35081**
Maz'ya, Vladimir G. *see* **Kresin, G. I., 99m:35094**
Mierczyński, Janusz Globally positive solutions of linear parabolic partial differential equations of second order with Dirichlet boundary conditions. **99m:35096**
(Pasechnik, Gennady) *see* **Eidelman, Samuil D., 99h:35080**
Pata, Vittorino *see* **Giorgi, Claudio; et al., 99h:35081**
Popov, S. V. Unconditional solvability of boundary value problems for a parabolic problem with changing time direction. (Russian) (*see* **99m:00021**)
Ragnedda, Francesco *see* **Grimaldi Piro, Anna, 99f:35071**
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Sakaguchi, Shigeru (*with* Suzuki, Takashi[1]) Interior imperfect ignition cannot occur on a set of positive measure. (English summary) **99d:35072**
Solonnikov, Vsevolod A. *see* **Garroni, M. G.; et al., 99a:35110**
Suzuki, Takashi[1] *see* **Sakaguchi, Shigeru, 99d:35072**
Sweezy, Caroline B^q for parabolic measures. (English summary) **99e:35091**
Tonegawa, Yoshihiro On the regularity of a chemical reaction interface. **99i:35058**
Vivaldi, M. A. *see* **Garroni, M. G.; et al., 99a:35110**
Weidemaier, Peter Existence results in L_p-L_q spaces for second order parabolic equations with inhomogeneous Dirichlet boundary conditions. **99e:35092**
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Bartilomo, Valeria (*with* Passarella, Francesca) Some theorems in the theory of heat conduction with dissipative boundaries. (English and Italian summaries) **99c:73008**
Berrone, Lucio R. Local positivity of the solution to Volterra integral equations and heat conduction in materials that may undergoes changes of phase. (English summary) **99f:45001**
Bizhanova, G. I. On the classical solvability of the one-dimensional Florin, Muskat-Verigin and Stefan free boundary problems. (Russian. English and Russian summaries) **99d:35180**
Cónsul, Neus On equilibrium solutions of diffusion equations with nonlinear boundary conditions. (English summary) (*see* **99d:00015**)
Cui, Bao Tong Oscillation for parabolic equations of neutral type. (English summary) **99e:35236**
Dall'Aglio, Andrea (*with* Murat, François) A corrector result for H-converging parabolic problems with time-dependent coefficients. (English summary) **99m:35023**
Dupaix, C. (*with* Hilhorst, D.; Laurençot, Philippe) Upper-semicontinuity of the attractor for a singularly perturbed phase field model. (English summary) **99f:35009**
Garroni, M. G. (*with* Solonnikov, Vsevolod A.; Vivaldi, M. A.) On the oblique derivative problem in an infinite angle. **99b:35039**
Hämäläinen, Jari Spline collocation for the single layer heat equation. **99i:65112**
Herraiz, Luis A. A nonlinear parabolic problem in an exterior domain. (English summary) **99a:35142**
Hilhorst, D. *see* **Dupaix, C.; et al., 99f:35009**
Hill, Adrian T. L_∞ estimates on the solutions of nonselfadjoint elliptic and parabolic equations in bounded domains. (English summary) **99b:35014**
Isakov, Victor Some inverse problems for the diffusion equation. (English summary) **99j:35231**
Ishige, Kazuhiro An intrinsic metric approach to uniqueness of nonnegative solutions of parabolic equations. (English summary) **99e:35090**
Laurençot, Philippe *see* **Dupaix, C.; et al., 99f:35009**
van der Merwe, Abraham Johannes Perturbations of evolution equations. (English summary) **99b:34101**
Murat, François *see* **Dall'Aglio, Andrea, 99m:35023**
Nishioka, Kunio The first hitting time and place of a half-line by a biharmonic pseudo process. **99f:60080**
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Solonnikov, Vsevolod A. *see* **Garroni, M. G.; et al., 99b:35039**
Tao, You Shan Classical solution of Verigin problem with surface tension. (English summary) **99a:35280**
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Watanabe, Hisako Layer heat potentials for a bounded cylinder with fractal lateral boundary. **99k:31008**

35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

Ivochkina, N. M. The existence of evolution of closed type. (English summary) **99b:35082**
Maremonti, Paolo (*with* Solonnikov, Vsevolod A.) On nonstationary Stokes problem in exterior domains. (English summary) **99c:35092**
Simon, László On systems of strongly nonlinear parabolic functional-differential equations. **99c:35093**
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Adalsteinsson, D. (*with* Evans, Lawrence C.; Ishii, Hitoshi) The level set method for etching and deposition. (English summary) **99a:35257**
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Jian, Su Wen The local Cauchy problem for singular semilinear evolution equations in Banach spaces. (Chinese. English and Chinese summaries) **99c:34127**
Lattès, Robert Application de la théorie des semi-groupes à l'intégration d'équations aux dérivées partielles. [Application of semigroup theory to the integration of partial differential equations] (*see* **99f:00034**)
Li, Da Hua Bifurcations and stability of time-periodic solutions for a class of evolution equations with one parameter. (Chinese. English and Chinese summaries) **99a:34168**
Pichór, Katarzyna Asymptotic stability of a partial differential equation with an integral perturbation. (English summary) **99b:47061**

35K25 General theory of higher-order, parabolic equations

Chen, Xu-Yan On the scaling limits at zeros of solutions of parabolic equations. (English summary) **99e:35093**
Sadallah, Boubaker-Khaled Singularities of the solution of a $2m$-parabolic problem in a polygonal domain. (English summary) **99i:35059**
— Existence de la solution de l'équation de la chaleur dans un disque. (English and French summaries) [Existence of the heat equation solution in a disc] **99i:35060**

Items with secondary classifications in 35K25

Dawson, Donald A. (*with* Kouritzin, Michael A.) Invariance principles for parabolic equations with random coefficients. (English summary) **99c:60128**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Local lower bounds on heat kernels. (English summary) **99k:35036**
Kouritzin, Michael A. *see* **Dawson, Donald A., 99c:60128**
Robinson, Derek W. *see* **ter Elst, A. F. M., 99k:35036**
Samarin, V. A. On a nonlocal problem for a fourth-order degenerate local-evolution equation. (Russian) (*see* **99m:00019**)

35K30 Initial value problems for higher-order, parabolic equations

Bragg, Louis R. Polynomial expansions of solutions of Cauchy problems that involve one space variable. (English summary) **99f:35072**
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35K35 Boundary value problems for higher-order, parabolic equations

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Grubb, Gerd Pseudodifferential evolution problems. **99e:35250**
Hieber, Matthias Gaussian estimates and invariance of the L^p-spectrum for elliptic operators of higher order. **99a:47061**
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Wolff, Michael *see* **Naumann, J.; et al., 99h:35091**
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Houshıyarı, Mastaneh (*with* Erdem, İpek) Global attractors for nonlinear pseudoparabolic and pseudohyperbolic equations. (English summary) **99m:35024**
Hulshof, Josephus (*with* King, John Robert) Analysis of a Darcy flow model with a dynamic pressure saturation relation. (English summary) **99m:76109**
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Kojo, Tomomi On solutions of degenerate pseudo-parabolic equations in a Hilbert space. **99h:34087**
Maksimova, N. O. On the existence of nontrivial nonnegative generalized solutions of nonlinear partial differential inequalities. (Russian. Russian summary) **99b:35224**

35K85 Unilateral problems and variational inequalities for parabolic PDE [see also 35R35, 49J40]

Bonfanti, Giovanna (*with* Colli, Pierluigi; Grasselli, Maurizio; Luterotti, Fabio) Non-smooth kernels in a phase relaxation problem with memory. **99c:35128**
Colli, Pierluigi *see* **Bonfanti, Giovanna; et al., 99c:35128**
Grasselli, Maurizio *see* **Bonfanti, Giovanna; et al., 99c:35128**
Kenmochi, Nobuyuki (*with* Koyama, Tetsuya; Meyer, Gunter H.) Parabolic PDEs with hysteresis and quasivariational inequalities. **99e:35123**
Koyama, Tetsuya *see* **Kenmochi, Nobuyuki; et al., 99e:35123**
Lavrenyuk, S. P. Parabolic variational inequalities without initial conditions. (Russian. Russian summary) **99e:35124**
Li, Sheng Hong (*with* Wang, Xue Feng[1]) Existence, uniqueness, and regularity of solutions to parabolic variational inequalities with gradient constraints. (Chinese. English and Chinese summaries) **99g:35075**
Luterotti, Fabio *see* **Bonfanti, Giovanna; et al., 99c:35128**
Meyer, Gunter H. *see* **Kenmochi, Nobuyuki; et al., 99e:35123**
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Bao, Ji Guang *see* **Li, Mei Sheng, 99a:35121**
Davila, Mario (*with* Perla Menzala, Gustavo) Unique continuation for the Benjamin-Bona-Mahony and Boussinesq's equations. (English summary) **99i:35138**
Gasanov, A. I. Variational approach to a non-local identification problem related to non-linear ion transport. (English summary) **99f:35207**
Gasiński, L. Optimal shape design problems for a class of systems described by parabolic hemivariational inequality. (English summary) **99f:49066**
Haslinger, Jaroslav *see* **Miettinen, Markku, 99d:65289**
Ito, Akio *see* **Yamazaki, Noriaki; et al., 99m:35114**
Kenmochi, Nobuyuki *see* **Yamazaki, Noriaki; et al., 99m:35114**
Li, Mei Sheng (*with* Bao, Ji Guang) Strong solutions of obstacle problems for fully nonlinear parabolic equations. (Chinese. English and Chinese summaries) **99a:35121**
Miettinen, Markku (*with* Haslinger, Jaroslav) Finite element approximation of parabolic hemivariational inequalities. (English summary) **99d:65289**
— (*with* Panagiotopoulos, Panagiotis D.) On parabolic hemivariational inequalities and applications. **99k:47171**
Panagiotopoulos, Panagiotis D. *see* **Miettinen, Markku, 99k:47171**
Perla Menzala, Gustavo *see* **Davila, Mario, 99i:35138**
Rösch, Arnd Second order optimality conditions and stability estimates for the identification of nonlinear heat transfer laws. (English summary) **99c:49023**
Uko, Livinus U. A generalized truncation method for multivalued parabolic problems. (English summary) **99h:34090**
Yamazaki, Noriaki (*with* Ito, Akio; Kenmochi, Nobuyuki) Global attractors of time-dependent double obstacle problems. (English summary) **99m:35114**

35K99 None of the above, but in this section

Avalos, George (*with* Lasiecka, Irena) The strong stability of a semigroup arising from a coupled hyperbolic/parabolic system. (English summary) **99h:35117**
Buchynchyk, Violeta V. On symmetries of a generalized diffusion equation. (English summary) (*see* **99b:00027**)
Collins, Michael D. (*with* Siegmann, William L.) Parabolic equation techniques for wave propagation. (English summary) (*see* **99d:00023**)
Guo, Mao Zheng (*with* Wang, Xiao Ping[1]) Transport equations for a general class of evolution equations. (English summary) **99f:35113**
Lasiecka, Irena *see* **Avalos, George, 99h:35117**
Laurençot, Philippe Weak solutions to a Penrose-Fife model with Fourier law for the temperature. (English summary) **99g:35076**
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Allouba, Hassan Different types of SPDEs in the eyes of Girsanov's theorem. (English summary) **99i:60119**
Ambrosetti, Antonio Variational methods to find homoclinics for differential equations under perturbation. **99i:58025**
Aristov, S. N. Periodic and localized exact solutions of the equation $h_t = \Delta \ln h$. (Russian. Russian summary)
Ayupova, N. B. (*with* Golubyatnikov, V. P.) Formal solutions of an inverse problem for a class of evolution equations. (Russian. Russian summary) **99g:35141**
— (*with* Golubyatnikov, V. P.) On formal solutions to multidimensional evolution equations. (English summary) **99m:35028**
Bally, Vlad (*with* Pardoux, Étienne) Malliavin calculus for white noise driven parabolic SPDEs. (English summary) **99g:60095**
Bates, Peter W. (*with* Chen, Fengxin; Wang, Jun Ping[2]) Global existence and uniqueness of solutions to a nonlocal phase-field system. **99c:35245**
Bazhlekova, Emilia Duhamel-type representations of the solutions of non-local boundary value problems for the fractional diffusion-wave equation. (English summary) **99i:26008**
Belleni-Morante, A. (*with* McBride, A. C.) ★ Applied nonlinear semigroups. (English summary) **99m:47083**
Boldrini, José Luiz (*with* Crema, Janete) On forced periodic solutions of superlinear quasi-parabolic problems. (English summary) **99e:35007**
Bondarenko, V. G. Construction of a solution of a parabolic equation with variable coefficients. (Russian. English, Russian and Ukrainian summaries)
Bourgain, Jean Hamiltonian methods in nonlinear evolution equations. **99h:35195**
Boutet de Monvel, Louis (*with* Khruslov, Evgenii Ya.) An averaged model of the diffusion of colored particles in domains with small obstacles. (Russian. English, Russian and Ukrainian summaries) **99c:35020**
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Bykov, A. A. (*with* Popov, Victor Yu.) On the lifetime of one-dimensional transient contrast structures. (Russian. Russian summary)
Caginalp, Gunduz (*with* Xie, Weiqing) An analysis of phase-field alloys and transition layers. (English summary) **99g:80007**
Calderón, Calixto P. (*with* Vera de Serio, Virginia N.) Successive approximations and Osgood's theorem. (English summary) **99a:34030**
Caussignac, Ph. Incompletely parabolic systems from Friedrichs theory point of view. (English summary) **99a:35111**
Cerrai, Sandra Differentiability with respect to initial datum for solutions of SPDE's with no Fréchet differentiable drift term. (English summary) **99h:35221**
— Kolmogorov equations in Hilbert spaces with nonsmooth coefficients. (English summary) **99h:35222**
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Chen, Ren Zhao (*with* Nie, Hong) A penalty shifting method for calculation of optimal initial controls for a class of parabolic systems. (Chinese. English and Chinese summaries)
Chi, Dong Pyo (*with* Kim, Jin Hong) A Harnack inequality for the heat equation on a compact Riemannian manifold with non-convex boundary. (English summary) **99f:58191**
Chueshov, Igor D. (*with* Vuillermot, Pierre A.) Long-time behavior of solutions to a class of quasilinear parabolic equations with random coefficients. (English and French summaries) **99b:35225**
— (*with* Vuillermot, Pierre A.) Long-time behavior of solutions to a class of stochastic parabolic equations with homogeneous white noise: Stratonovitch's case. (English summary) **99i:60132**
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Cui, Bao Tong *see* **Li, Wei Nian, 99k:35181**
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Davies, E. B. Pointwise lower bounds on the heat kernels of higher order elliptic operators. **99h:35040**
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Đặng Đình Áng (*with* Nguyễn Đình Trí; Dang Duc Trong) Global solution of a two phase free boundary problem. **99e:35246**
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Escher, Joachim (*with* Mayer, Uwe F.; Simonett, Gieri) The surface diffusion flow for immersed hypersurfaces. (English summary) **99f:58042**
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Fattorini, H. O. Control problems for parabolic equations with state constraints and unbounded control sets. (English summary) **99f:49029**
Fennemore, George (*with* Xin, Jack X.) Wetting fronts in one-dimensional periodically layered soils. (English summary) **99b:76084**
Fernández-Cara, Enrique (*with* Garrido-Atienza, María José; Real Anguas, José) On the approximate controllability of a stochastic parabolic equation with a multiplicative noise. (English and French summaries) **99m:93005**
Fichmann, Luiz A compact dissipative dynamical system for a difference equation with diffusion. **99d:58157**
Fiedler, Bernold (*with* Turaev, D. V.) Normal forms, resonances, and meandering tip motions near relative equilibria of Euclidean group actions. (English summary) **99m:58171**
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Guan, Zhicheng (*with* Wang, Xu-Jia) Existence for a free boundary problem in ground freezing. (English summary) **99f:35230**
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Li, Wei Nian (*with* Cui, Bao Tong) Oscillations of systems of neutral delay parabolic equations. (English summary) **99k:35181**
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Norris, James R. Heat kernel asymptotics and the distance function in Lipschitz Riemannian manifolds. **99d:58167**
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Payne, Lawrence E. (*with* Song, Jong Chul) Spatial decay estimates for the Brinkman and Darcy flows in a semi-infinite cylinder. (English summary) **99e:76121**
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Reissig, Michael (*with* Timofeev, A. Yu.) Leray-Volevich conditions for systems of evolution equations basing on the generalized derivative in the sense of Gelfond-Leontjev. (English summary)
Rosencrans, Steve Taylor dispersion in curved channels. (English summary) **99e:35017**
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— (*with* Ito, Akio; Yamazaki, Noriaki; Kenmochi, Nobuyuki) Asymptotic stability for evolution equations governed by subdifferentials. (English summary) **99m:34141**
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Visintin, Augusto Six talks on hysteresis. **99c:47118**
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Xiao, Ti Jun (*with* Liang, Jin) Exponential stability of solutions for higher order abstract Cauchy problems. (English summary) **99b:34102**
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Ying, Long An (*with* Yang, Tong; Zhu, Changjiang) Nonlinear stability of strong detonation waves for a dissipative model. (English summary) **99k:76091**
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35Lxx Partial differential equations of hyperbolic type [see also 58G16]

Atiyah, Michael F. Hyperbolic differential equations and algebraic geometry (after Petrowsky). (*see* **99f:00042**)
Blokhin, A. M. (*with* Tkachev, D. L.) ★ Mixed problems for the wave equation in coordinate domains. **99m:35137**
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Abou-Zaid, Moheb S. *see* **El-Borai, Mahmoud M.**
Andrushkiw, Roman (*with* Nikitin, Anatolii) Higher symmetries of the wave equation with scalar and vector potentials. (English summary) (*see* **99b:00027**)
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Burq, Nicolas Décroissance de l'énergie locale de l'équation des ondes pour le problème extérieur et absence de résonance au voisinage du réel. [Decay of the local energy of the wave equation for the exterior problem and absence of resonance near the real axis] **99j:35119**
Cagnol, John (*with* Zolésio, Jean-Paul) Hidden shape derivative in the wave equation with Dirichlet boundary condition. (English and French summaries) **99h:35118**
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— (*with* Hsu, Sze-Bi; Zhou, Jianxin) Chaotic vibrations of the one-dimensional wave equation due to a self-excitation boundary condition. III. Natural hysteresis memory effects. (English summary) **99i:35085**
— (*with* Hsu, Sze-Bi; Zhou, Jianxin) Chaotic vibrations of the one-dimensional wave equation due to a self-excitation boundary condition. I. Controlled hysteresis. (English summary) **99a:35155**
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Cheng, Zheng Qiong An L^p estimate for solutions of the wave equation with a potential having compact support. (Chinese. English and Chinese summaries) **99a:35156**

Choi, Q-Heung (*with* Chun, Sungki; Jung, Tacksun) Jumping problem in a wave equation. **99c:35129**
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Dittrich, J. (*with* Duclos, Pierre[1]; Gonzalez, Nicolas) d'Alembert field driven by a periodically moving wall. (English summary) (*see* **99i:81005**)
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Eidus, D. Radiation principle for inhomogeneous media. (English summary) **99c:35130**
El-Borai, Mahmoud M. (*with* Abou-Zaid, Moheb S.) On invariance properties of the Cauchy problem. (English summary)
Filinovskii, Aleksei V. Decay of solutions of the first mixed problem for the wave equation in domains with infinite boundaries. (Russian)
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Fryant, A. (*with* Vemuri, M. K.) Wave polynomials. (English summary) **99i:35086**
Ginibre, J. (*with* Velo, G.) Generalized Strichartz inequalities for the wave equation in homogeneous Besov spaces. (English summary) **99e:35125**
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Kim, Jong Kyu (*with* Pavel, N. H.) Existence and regularity of weak periodic solutions of the 2D wave equation. **99c:35131**
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35L10 General theory of second-order, hyperbolic equations

Aldashev, S. A. On multidimensional Darboux problems for linear hyperbolic equations. (Russian)
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Babilodze, D. S. On the solvability of a Darboux-type problem for second-order loaded hyperbolic equations. (Russian. English and Georgian summaries)
Berest, Yu. Yu. (*with* Loutsenko, Igor M.) Huygens' principle in Minkowski spaces and soliton solutions of the Korteweg-de Vries equation. (English summary) **99c:35134**
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Zhang, Zheng Qiu Oscillation of solutions of certain hyperbolic equations of neutral type with delays. (English summary) **99c:35256**

35L20 Boundary value problems for second-order, hyperbolic equations

Aldashev, S. A. Some boundary value problems for second-order multidimensional hyperbolic equations. (Russian) (*see* **99m:00019**)
Bouziani, Abdelfatah Solution forte d'un problème mixte avec une condition non locale pour une classe d'équations hyperboliques. (English and French summaries) [Strong solution of a mixed problem with a nonlocal condition for a class of hyperbolic equations] **99f:35118**
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Cavalcanti, M. M. Boundary stabilization of a hyperbolic equation with viscosity. (English summary) **99k:35108**
Filinovskiĭ, Alekseĭ V. Decrease of solutions of the wave equation, and spectral properties of the Laplace operator in expanding domains. (Russian) **99f:35119**

Gvazava, D. K. (*with* Kharibegashvili, Sergo) To the theory of boundary value problems for hyperbolic type equations and systems. (English and Georgian summaries) **99d:35093**

Kharibegashvili, Sergo On some multidimensional versions of a characteristic problem for second-order degenerating hyperbolic equations. (English summary) **99b:35121**

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Korzyuk, V. I. The method of energy inequalities and of averaging operators. (Russian. English and Russian summaries) **99c:35136**

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Kubesov, N. A. Asymptotic behavior of the solution of a mixed problem with large initial velocity for a singularly perturbed equation that degenerates into a parabolic equation. (Russian) **99e:35128**

Littman, Walter (*with* Liu, Bo) On the spectral properties and stabilization of acoustic flow. (English summary) **99k:35109**

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Ortega, Rafael (*with* Robles-Pérez, Aureliano M.) A maximum principle for periodic solutions of the telegraph equation. **99c:35137**

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Tataru, Daniel On the regularity of boundary traces for the wave equation. **99e:35129**

Troitskaya, S. D. On a boundary value problem for hyperbolic equations. (Russian. Russian summary) **99f:35121**

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— On the local Cauchy problem for nonlinear hyperbolic functional-differential equations. (English summary) **99c:35251**

Guezane-Lakoud, Assia (*with* Rebbani, Faouzia; Yurchuk, Nikolai I.) Problème aux limites pour une équation différentielle opérationnelle de second ordre. (English, French and Arabic summaries) [Boundary value problem for a second-order operator-differential equation] **99c:35257**

Jabri, Y. (*with* Moussaoui, Mimoun) A critical point theorem without compactness and applications. **99a:58029**

Kharibegashvili, Sergo On some boundary value problems for an ultrahyperbolic equation. (English summary) **99i:35109**

Kozachenko, Yu. V. (*with* Trigub, S. G.) Application of the Fourier method to boundary value problems with random initial conditions. (Ukrainian. Ukrainian summary) **99e:35249**

Lenhart, Suzanne (*with* Protopopescu, Vladimir; Yong, Jiong Min) Optimal control of a reflection boundary coefficient in an acoustic wave equation. (English summary) **99a:49044**

Liu, Wei-Jiu (*with* Williams, Graham H.) The exponential stability of the problem of transmission of the wave equation. (English summary) **99b:35112**

Marti, Jean-André (*with* Nuiro, Silvère Paul; Valmorin, Vincent) Algèbres différentielles et problème de Goursat non linéaire à données irrégulières. (English and French summaries) [Differential algebras and nonlinear Goursat problem with irregular data] **99k:35012**

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Petkov, Vesselin M. Sur la conjecture de Lax et Phillips pour un nombre fini d'obstacles strictement convexes. [On the Lax-Phillips conjecture for finitely many strictly convex obstacles] **99f:35155**

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35L25 General theory of higher-order, hyperbolic equations

Dzhagmaidze, Z. A. On a characteristic problem for higher-order linear hyperbolic systems. (Russian. English and Georgian summaries)

Nguyễn Mạnh Hùng On the smoothness of the solution of the Dirichlet problem for hyperbolic systems in domains with a nonsmooth boundary. (Russian)

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Bernardi, Enrico (*with* Bove, Antonio) Geometric transition for a class of hyperbolic operators with double characteristics. **99c:35007**

Bove, Antonio *see* **Bernardi, Enrico, 99c:35007**

Çelebi, A. Okay *see* **Sengül, Sare, 99j:35004**

Kotukhov, M. P. *see* **Zhegalov, V. I., 99b:35119**

Sengül, Sare (*with* Çelebi, A. Okay) On Riemann functions for complex differential equations. (English summary) **99j:35004**

Zhegalov, V. I. (*with* Kotukhov, M. P.) On integral equations for the Riemann function. (Russian) **99b:35119**

35L30 Initial value problems for higher-order, hyperbolic equations

Borzymowski, Andrzej (*with* Shaieb, Mustafa) Goursat-type problems containing the normal derivatives of the unknown functions. (English summary) **99a:35159**

Kinoshita, Tamotu Gevrey wellposedness of the Cauchy problem for the hyperbolic equations of third order with coefficients depending only on time. (English summary) **99h:35120**

Mu, Chunlai (*with* Tang, Xianjiang) L^p-L^q estimates for higher order perturbed hyperbolic equation. (English summary) **99b:35122**

Shaieb, Mustafa *see* **Borzymowski, Andrzej, 99a:35159**

Tang, Xianjiang *see* **Mu, Chunlai, 99b:35122**

Items with secondary classifications in 35L30

Castro Barbero, Carlos (*with* Zuazua, Enrique) A hybrid system consisting of two flexible beams connected by a point mass: spectral analysis and well-posedness in asymmetric spaces. **99a:35248**

Shirikyan, Armen (*with* Volevich, Leonid) Bounded and almost periodic solutions of linear high-order hyperbolic equations. (English summary) **99k:35135**

Sopuev, A. On an inverse problem for a third-order equation. (Russian. English and Uzbek summaries) **99f:35226**

Uchikoshi, Keisuke Stokes operators for microhyperbolic equations. (English summary) **99m:35008**

Volevich, Leonid *see* **Shirikyan, Armen, 99k:35135**

Zuazua, Enrique *see* **Castro Barbero, Carlos, 99a:35248**

35L35 Boundary value problems for higher-order, hyperbolic equations

Dzhokhadze, O. M. Darboux and Goursat type problems in the trihedral angle for hyperbolic type equations of third order. **99k:35110**

Fichera, Gaetano A boundary value problem connected with response of semi-space to a short laser pulse. (English and Italian summaries) **99c:35139**

— *see also* **Oleĭnik, Ol'ga Arsen'evna, 99c:35140**

Oleĭnik, Ol'ga Arsen'evna Addition to the G. Fichera paper: "A boundary value problem connected with response of semi-space to a short laser pulse" [Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. **8** (1997), no. 3, 197–227; MR 99c:35139]. **99c:35140**

Zhegalov, V. I. On the three-dimensional Riemann function. (Russian. Russian summary) **99a:35160**

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Chen, Guowang Cauchy problem for multidimensional coupled system of nonlinear Schrödinger equation and generalized IMBq equation. (English summary) **99a:35232**

Kharibegashvili, Sergo On the solvability of a multidimensional version of the Goursat problem for a second order hyperbolic equation with characteristic degeneration. (English and Georgian summaries) **99j:35148**

Vasseur, Alexis Kinetic semidiscretization of scalar conservation laws and convergence by using averaging lemmas. (English summary) **99m:65174**

35L40 General theory of hyperbolic systems of first-order PDE

Cinquini, Silvio On hyperbolic systems of several independent variables. (Italian) (*see* **99d:00031**)

Dzhokhadze, O. M. On the boundary value problem in a dihedral angle for normally hyperbolic systems of first order. (English summary) **99d:35094**

Gorechko, A. N. Construction of the solutions of linear hyperbolic systems using Laguerre geometric-optic expansions. (English summary) **99h:35121**

Kolev, Dimitar Involutivity and simple waves in $\mathbf{R}^2$. (English summary) **99k:35111**

Nishitani, Tatsuo Strongly hyperbolic systems of maximal rank. **99b:35123**

— Hyperbolicity of two by two systems with two independent variables. (English summary) **99j:35125**

Oliskevich, M. O. Growth of solutions of a nonlocal problem for a hyperbolic system with discontinuous coefficients. (Ukrainian. English and Russian summaries)

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Hoever, Georg On the spectrum of two-dimensional Schrödinger operators with spherically symmetric, radially periodic magnetic fields. (English summary) **99e:81048**

Iriondo, Mirta S. (*with* Leguizamón, Enzo O.; Reula, Oscar A.) Fast and slow solutions in general relativity: the initialization procedure. (English summary) **99b:83008**

Leguizamón, Enzo O. *see* **Iriondo, Mirta S.; et al., 99b:83008**

Métivier, Guy (*with* Schochet, S.) Interactions trilinéaires résonantes. [Resonant trilinear interactions] **99m:35143**

— (*with* Schochet, S.) Trilinear resonant interactions of semilinear hyperbolic waves. **99m:35144**

Podol'skiĭ, V. E. *see* **Sadovnichiĭ, V. A., 99b:34055**

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Vainberg, B. R. Asymptotic expansion as $t \to \infty$ of the solutions of exterior boundary value problems for hyperbolic equations and quasiclassical approximations [MR 91g:35003]. (*see* **99i:35002**)

Vârsan, C. ★ Lie algebra in differential equations. **99f:35008**

35L45 Initial value problems for hyperbolic systems of first-order PDE

Abrashin, V. N. A decomposition method for solving first-order hyperbolic systems. (Russian. Russian summary) **99k:35112**

Benvenuti, Stefano (*with* Bove, Antonio) On a class of hyperbolic systems with multiple characteristics. **99g:35077**
Bove, Antonio *see* **Benvenuti, Stefano, 99g:35077**
D'Ancona, Piero (*with* Spagnolo, Sergio) On pseudosymmetric hyperbolic systems. **99k:35113**
Kinoshita, Tamotu On the wellposedness in the Gevrey classes of the Cauchy problem for weakly hyperbolic systems with Hölder continuous coefficients in time. **99m:35139**
Matsumoto, Waichiro The strong hyperbolicity of first order systems with coefficients depending only on the time variable. (*see* **99d:00015**)
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Taglialatela, Giovanni Conditions d'hyperbolicité pour un opérateur matriciel à caractéristiques de multiplicité constante. (Italian summary) [Hyperbolicity conditions for a matrix operator with characteristics of constant multiplicity] **99a:35161**

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Bonilla, Miguel Á. G. Symmetric hyperbolic systems for Bianchi equations. (English summary) **99g:83010**
Kong, De Xing *see* **Li, Da Qian, 99a:35166**
Li, Da Qian (*with* Kong, De Xing) Initial value problem for general quasilinear hyperbolic systems with characteristics with constant multiplicity. (English summary) **99a:35166**
Ye, Xiao Ping Existence of a global solution for a nonstrictly hyperbolic system of equations. (Chinese. English and Chinese summaries) **99a:35173**

35L50 Boundary value problems for hyperbolic systems of first-order PDE

Astaburuaga, M. A. (*with* Coimbra Charao, R.; Fernández, Claudio A.; Perla Menzala, Gustavo) Scattering frequencies for a perturbed system of elastic wave equations. (English summary) **99a:35162**
Coimbra Charao, R. *see* **Astaburuaga, M. A.; et al., 99a:35162**
Fernández, Claudio A. *see* **Astaburuaga, M. A.; et al., 99a:35162**
Nishitani, Tatsuo (*with* Takayama, Masahiro) Characteristic initial-boundary value problems for symmetric hyperbolic systems. **99k:35114**
Perla Menzala, Gustavo *see* **Astaburuaga, M. A.; et al., 99a:35162**
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Banasiak, Jacek (*with* Mika, Janusz R.) Singularly perturbed telegraph equations with applications in the random walk theory. (English summary) **99d:35014**
Mika, Janusz R. *see* **Banasiak, Jacek, 99d:35014**
Moroşanu, Gheorghe (*with* Perzhan, A. V.) The singular limit of telegraph equations. (English summary) **99c:35240**
Perzhan, A. V. *see* **Moroşanu, Gheorghe, 99c:35240**
Secchi, Paolo A symmetric positive system with nonuniformly characteristic boundary. (English summary) **99m:35054**
Torres, Rodolfo H. Maxwell's equations and dielectric obstacles with Lipschitz boundaries. (English summary) **99e:35216**

35L55 Hyperbolic systems of higher-order PDE

Clark, Haroldo R. (*with* San Gil Jutuca, L. P.; Milla Miranda, Manuel) On a mixed problem for a linear coupled system with variable coefficients. (English summary) **99a:35163**
Milla Miranda, Manuel *see* **Clark, Haroldo R.; et al., 99a:35163**
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Del Santo, Daniele Global existence and blow-up for a hyperbolic system in three space dimensions. (English summary) **99m:35162**
Micu, Sorin (*with* Zuazua, Enrique) Asymptotics for the spectrum of a fluid/structure hybrid system arising in the control of noise. (English summary) **99e:35170**
Zuazua, Enrique *see* **Micu, Sorin, 99e:35170**

35L60 Nonlinear first-order PDE of hyperbolic type

Akramov, T. A. On the behavior of solutions of a hyperbolic problem. (Russian. Russian summary) **99d:35095**
Albert, John P. (*with* Linares, Felipe) Stability of solitary-wave solutions to long-wave equations with general dispersion. (English and Portuguese summaries) **99m:35140**
Barbu, Luminita (*with* Moroşanu, Gheorghe) Asymptotic analysis of the telegraph equations with non-local boundary value conditions. (English summary) **99j:35126**
Bergeret, Pascale Classification of smooth solutions to 2×2 hyperbolic systems with boundary damping. (English summary) **99b:35124**
Boillat, Guy Nonlinear hyperbolic fields and waves. **99k:35115**
Cai, Lin Fu Existence of global smooth solutions to a certain problem for quasilinear hyperbolic systems. (Chinese. English and Chinese summaries) **99c:35141**
Čanić, Sunčica (*with* Keyfitz, Barbara Lee) Quasi-one-dimensional Riemann problems and their role in self-similar two-dimensional problems. (English summary) **99j:35127**
Cox, E. A. *see* **Kluwick, Alfred, 99a:35165**
Donnat, P. (*with* Joly, J.-L.; Métivier, Guy; Rauch, Jeffrey B.) Diffractive nonlinear geometric optics. **99m:35147**
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Hu, Jiaxin The Riemann problem for pressureless fluid dynamics with distribution solutions in Colombeau's sense. (English summary) **99e:35130**
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— *see also* **Yang, Xiao Zhou, 99e:35134**
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Keyfitz, Barbara Lee *see* **Čanić, Sunčica, 99j:35127**
Kinoshita, Tamotu On the Cauchy problem with small analytic data for nonlinear weakly hyperbolic systems. (English summary) **99d:35096**
Klingenberg, Christian (*with* Lu, Yun-guang) The vacuum case in Diperna's paper. (English summary) **99d:35097**
Kluwick, Alfred (*with* Cox, E. A.) Nonlinear waves in materials with mixed nonlinearity. (English summary) **99a:35165**
Kolev, Dimitar (*with* Tokarev, D. D.) Riemann's invariants and GSC method. (English summary) (*see* **99g:00044**)
— Wave propagation for quasilinear systems of PDEs. (English summary) **99c:35142**
Kong, De Xing Cauchy problem for quasilinear hyperbolic systems with higher order dissipative terms. (English summary) **99b:35125**
— Maximum principle in nonlinear hyperbolic systems and its applications. **99f:35123**
— *see also* **Li, Da Qian, 99a:35166**; **Zhang, Wei Guo[1], 99a:35168** *and* **Li, Da Qian; et al., 99f:35124**
Lannes, David Dispersive effects for nonlinear geometrical optics with rectification. (English summary) **99m:35142**
Li, Da Qian (*with* Zhou, Yi[1]; Kong, De Xing) Weak linear degeneracy and global existence of classical solutions for quasilinear hyperbolic systems. (English summary) **99f:35124**
— (*with* Kong, De Xing) Initial value problem for general quasilinear hyperbolic systems with characteristics with constant multiplicity. (English summary) **99a:35166**
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Luo, Dang (*with* Liu, Fa Gui) The Cauchy problem for P systems with nonlinear dissipative terms. (Chinese. English and Chinese summaries)
Métivier, Guy (*with* Schochet, S.) Interactions trilinéaires résonantes. [Resonant trilinear interactions] **99m:35143**
— (*with* Schochet, S.) Trilinear resonant interactions of semilinear hyperbolic waves. **99m:35144**
— *see also* **Donnat, P.; et al., 99m:35147**
Mielke, Alexander Flow properties for Young-measure solutions of semilinear hyperbolic problems. (English summary) **99m:35145**
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Nedeljkov, Marko (*with* Pilipović, Stevan S.) Generalized solution to a semilinear hyperbolic system with a non-Lipshitz nonlinearity. (English summary) **99a:35167**
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— *see also* **Donnat, P.; et al., 99m:35147**
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Shizuta, Yasushi The regularity of solutions of the initial-boundary value problem for quasi-linear symmetric hyperbolic systems with characteristic boundary. (English summary) (*see* **99g:35005**)
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Tang, Shaoqiang Steady states of some models for van der Waals fluids. (English summary)
Tao, You Shan The Cauchy problem for some nonlinear hyperbolic equations of first order. (Chinese. English and Chinese summaries)
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Wang, Dehua On the Cauchy problem of some dissipative flows. (English summary) **99b:35126**
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Xiao, Ling Nonlinear diffusive phenomena of solutions for quasilinear hyperbolic systems. (English summary) **99m:35148**
Xin, Zhouping Viscous boundary layers and their stability. I. (English summary) **99f:35125**
Yang, Tong (*with* Zhu, Changjiang; Zhao, Huijiang) Global smooth solutions for a class of quasilinear hyperbolic systems with dissipative terms. (English summary) **99b:35127**
Yang, Xiao Zhou (*with* Huang, Fei Min) Two-dimensional Riemann problems of simplified Euler equation. (English summary) **99e:35134**
Zhang, Wei Guo[1] (*with* Kong, De Xing) Global classical solutions and explicit exact solutions to a kind of quasilinear partial differential equations. (English summary) **99a:35168**
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Zhu, Changjiang Convergence of the viscosity solutions for the system of nonlinear elasticity. (English summary) **99b:35128**
— Existence of the entropy solution for a viscoelastic model. (English summary) **99e:35135**
— *see also* **Yang, Tong; et al., 99b:35127**

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Agafonov, S. I. Linearly degenerate reducible systems of hydrodynamic type. (English summary) **99d:35133**
Bardi, Martino (*with* Faggian, Silvia) Hopf-type estimates and formulas for nonconvex nonconcave Hamilton-Jacobi equations. (English summary) **99e:35023**
Beregova, G. I. (*with* Kirilich, V. M.) The hyperbolic Stefan problem in a curvilinear sector. (Ukrainian. English and Ukrainian summaries) **99m:35270**
Bougrini, H. (*with* Piriou, Alain; Varenne, J. P.) Propagation et interaction des symboles principaux pour les ondes conormales semi-linéaires. [Propagation and interaction of principal symbols for semilinear conormal waves] **99c:35003**

Braasch, Peter On quasistationary solutions of the relativistic Vlasov-Maxwell system. (English summary) **99h:35213**
Chen, Shuxing Global existence of supersonic flow past a curved convex wedge. (English summary) **99c:76059**
Claudel, Clarissa M. (*with* Newman, Kerri P.) The Cauchy problem for quasi-linear hyperbolic evolution problems with a singularity in the time. (English summary) **99g:34126**
Colombini, Ferruccio (*with* Del Santo, Daniele) Formation of singularities for nonlinear hyperbolic 2×2 systems with periodic data. **99c:35151**
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— Applications of Schochet's methods to parabolic equations. (English and French summaries) **99m:35099**
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— (*with* Yang, Tong) Global weak solutions for elastic equations with damping and different end states. (English summary) **99g:35129**
Lyapidevskiĭ, V. Yu. Shallow water equations with dispersion. A hyperbolic model. (Russian. Russian summary) **99i:76016**
Métivier, Guy *see* **Joly, J.-L.; et al., 99j:35222**
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35L65 Conservation laws

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Brenier, Yann (*with* Corrias, L.) A kinetic formulation for multi-branch entropy solutions of scalar conservation laws. (English and French summaries) **99f:35126**
— (*with* Grenier, Emmanuel) Sticky particles and scalar conservation laws. (English summary) **99j:35129**
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— On the influence of viscosity on Riemann solutions. (English summary) **99b:35130**
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— (*with* Keyfitz, Barbara Lee) Riemann problems for the two-dimensional unsteady transonic small disturbance equation. (English summary) **99f:35127**
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Fan, Haitao Traveling waves, Riemann problems and computations of a model of the dynamics of liquid/vapor phase transitions. (English summary) **99j:35131**
Feireisl, Eduard (*with* Petzeltová, Hana) Singular kernels and compactness in nonlinear conservation laws. **99b:35132**
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García Navarro, P. Study of the applicability of an explicit uncentered scheme to one-dimensional nonstationary problems. (Spanish) (*see* **99d:00018**)
Godlewski, Edwige (*with* Olazabal, Marina; Raviart, Pierre-Arnaud) On the linearization of hyperbolic systems of conservation laws. Application to stability. (English summary) **99h:35125**
Godunov, S. K. (*with* Mikhaĭlova, T. Yu.; Romenskiĭ, E. I.) Systems of thermodynamically consistent conservation laws that are invariant under rotations. (Russian. Russian summary) **99g:35078**
Gosse, Laurent A priori error estimate for a well-balanced scheme designed for inhomogeneous scalar conservation laws. (English and French summaries) **99h:35126**
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Hattori, Harumi The Riemann problem and the existence of weak solutions to a system of mixed-type in dynamic phase transition. (English summary) **99e:35137**
He, Ji Huan Variational approach to a strictly hyperbolic system of conservation laws with singularity. (English summary)
Heibig, Arnaud (*with* Sahel, Amina) A method of characteristics for some systems of conservation laws. (English summary) **99g:35079**
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Huang, Fei Min (*with* Yang, Xiao Zhou) The two-dimensional Riemann problem for a class of systems of hyperbolic conservation law equations. (Chinese. English and Chinese summaries) **99e:35138**
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Zhang, Ping[4] (*with* Zheng, Yuxi) On oscillations of an asymptotic equation of a nonlinear variational wave equation. (English summary) **99j:35146**
Zhang, Quan De A necessary condition for the existence of global solutions to nonlinear wave equations. (Chinese. English and Chinese summaries) **99b:35151**
— *see also* **Li, Kai-tai, 99k:35125**
Zheng, Qin[2] (*with* Qiu, Qing Jiu) The concentration and oscillation of H^1 strong solutions for u^3-Klein Gordon equations. (Chinese. English and Chinese summaries) **99j:35147**
Zheng, Yuxi *see* **Glassey, Robert T.; et al., 99a:35181** *and* **Zhang, Ping[4], 99j:35146**
Zhestkov, S. V. (*with* Laptinskiĭ, V. N.) Existence and stability of periodic solutions of a class of nonlinear wave partial differential systems. (Russian. English and Russian summaries)
Zhou, Shengfan Dimension of the global attractor for discretization of damped sine-Gordon equation. (English summary)
Zhou, Yi[1] Remarks on local regularity for two space-dimensional wave maps. (English summary) **99c:35170**
Zhou, Yu Bin *see* **Wang, Ming Liang; et al., 99c:35168**
Zworski, Maciej *see* **Melrose, Richard B.; et al., 99f:35136**

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Alfimov, G. L. (*with* Eleonskiĭ, V. M.; Lerman, L. M.) Solitary wave solutions of nonlocal sine-Gordon equations. (English summary) **99a:35220**
Ali, Nasr Mostafa *see* **Kubiaczyk, Ireneusz, 99f:35219**
Andrade, Doherty (*with* Ma, T. F.) An operator equation suggested by a class of nonlinear stationary problems. (English summary) **99a:47091**
Barannik, A. F. (*with* Yurik, Ī. Ī.) On some exact solutions of nonlinear wave equations. (English summary) (*see* **99b:00027**)
— On subalgebras of the conformal algebra $AC(2, 2)$. (English summary) **99f:17004**
Benci, Vieri (*with* Fortunato, Donato; Pisani, Lorenzo) Remarks on topological solitons. **99f:35172**
Boccuto, Antonio (*with* Vitillaro, Enzo) Asymptotic stability for abstract evolution equations and applications to partial differential systems. (Italian summary) **99c:34130**
Bormisov, A. A. (*with* Gudkova, E. S.; Mukminov, F. Kh.) On the integrability of hyperbolic systems of the Riccati equation type. (Russian. English and Russian summaries) **99c:58065**
Cavalcanti, M. M. (*with* Lar'kin, N. A.; Soriano, J. A.) On solvability and stability of solutions of nonlinear degenerate hyperbolic equations with boundary damping. (English summary) **99h:35147**
Chen, Goong (*with* Hsu, Sze-Bi; Zhou, Jianxin) Chaotic vibrations of the one-dimensional wave equation due to a self-excitation boundary condition. II. Energy injection, period doubling and homoclinic orbits. (English summary) **99i:35084**
— (*with* Hsu, Sze-Bi; Zhou, Jianxin) Chaotic vibrations of the one-dimensional wave equation due to a self-excitation boundary condition. III. Natural hysteresis memory effects. (English summary) **99i:35085**
— (*with* Hsu, Sze-Bi; Zhou, Jianxin) Snapback repellers as a cause of chaotic vibration of the wave equation with a van der Pol boundary condition and energy injection at the middle of the span. (English summary) **99i:58103**
Chen, Wei Huan (*with* Li, Hai Zhong) Spacelike Weingarten surfaces in $\mathbf{R}^3_1$ and the sine-Gordon equation. (English summary) **99b:53015**
Dai, Zheng De (*with* Ma, Da Cai) Exponential attractors of nonlinear wave equations. (Chinese. Chinese summary)
Dangelmayr, Gerhard (*with* Fiedler, Bernold; Kirchgässner, Klaus; Mielke, Alexander) ★ Dynamics of nonlinear waves in dissipative systems: reduction, bifurcation and stability. (English summary) **99d:58002**
Denisov, A. M. Determination of a nonlinear coefficient in a hyperbolic equation for the Goursat problem. (English summary)
Drăgan, Vladimir *see* **Teodoru, Georgeta, 99m:35280**
Eleonskiĭ, V. M. *see* **Alfimov, G. L.; et al., 99a:35220**
Eser, Dursun *see* **Özer, Mehmet Naci, 99m:35236**
Euler, Marianna (*with* Euler, Norbert) Symmetries for a class of explicitly space- and time-dependent (1 + 1)-dimensional wave equations. (English summary) **99c:35010**
Euler, Norbert *see* **Euler, Marianna, 99c:35010**
Fang, Shao Mei Fourier spectral methods for nonlinear Klein-Gordon equations. (Chinese. English and Chinese summaries) **99c:65186**
Farahi, M. H. (*with* Rubio, J. E.; Wilson, D. A.) The global control of a nonlinear wave equation. (English summary)
Fiedler, Bernold *see* **Dangelmayr, Gerhard; et al., 99d:58002**
Fortunato, Donato *see* **Benci, Vieri; et al., 99f:35172**
Galusinski, Cédric Existence and continuity of uniform exponential attractors of the singularity perturbed Hodgkin-Huxley system. (English summary) **99a:35255**
Goubet, Olivier (*with* Moise, Ioana) Attractor for dissipative Zakharov system. **99a:35259**
Grigolia, M. On the existence and uniqueness of solutions of the Goursat problem for systems of functional partial differential equations of hyperbolic type.
Grillakis, Manoussos G. Energy estimates and the wave map problem. **99f:58205**
Grossinho, Maria do Rosário (*with* Nkashama, M. N.) Periodic solutions of parabolic and telegraph equations with asymmetric nonlinearities. **99g:35054**
Guan, Xin Ping (*with* Yang, Jun) Oscillation of systems of nonlinear hyperbolic systems of partial functional-differential equations of neutral type. (Chinese. English and Chinese summaries)
Gudkova, E. S. *see* **Bormisov, A. A.; et al., 99c:58065**
Ha, Jun-Hong (*with* Nakagiri, Shin-ichi) Existence and regularity of weak solutions for semilinear second order evolution equations. **99f:34085**
Hale, Jack K. Synchronization by diffusive coupling. (English summary) **99m:34100**
Hsu, Sze-Bi *see* **Chen, Goong; et al., 99i:35084; 99i:35085** *and* **99i:58103**
Jaffard, Stéphane (*with* Tucsnak, Marius; Zuazua, Enrique) Singular internal stabilization of the wave equation. (English summary) **99g:93073**
Jendoubi, Mohamed Ali A simple unified approach to some convergence theorems of L. Simon. (English summary) **99c:35101**
Joshi, Mark S. (*with* Sá Barreto, Antônio) The generation of semilinear singularities by a swallowtail caustic. (English summary) **99c:58155**
Keel, Markus Global existence for critical power Yang-Mills-Higgs equations in $\mathbf{R}^{3+1}$. (English summary) **99b:58227**
Kinoshita, Tamotu On the wellposedness in the ultradifferentiable classes of the Cauchy problem for a weakly hyperbolic equation of second order. **99i:35089**
Kirchgässner, Klaus *see* **Dangelmayr, Gerhard; et al., 99d:58002**
Kong, De Xing Cauchy problem for quasilinear hyperbolic systems with higher order dissipative terms. (English summary) **99b:35125**
Kubiaczyk, Ireneusz (*with* Ali, Nasr Mostafa) On the existence of weak solutions of the Darboux problem for the hyperbolic partial differential equations in Banach spaces. (English summary) **99f:35219**
Lar'kin, N. A. *see* **Cavalcanti, M. M.; et al., 99h:35147**
Lehner, Luis A dissipative algorithm for wave-like equations in the characteristic formulation. (English summary) **99i:65114**
Lei, Hin-Chi Group splitting and linearization mapping of a solvable non-linear wave equation. (English summary) **99a:35011**
Lerman, L. M. *see* **Alfimov, G. L.; et al., 99a:35220**
Li, Hai Zhong *see* **Chen, Wei Huan, 99b:53015**
Lin, Yuhua (*with* Tanaka, Naoki) Nonlinear abstract wave equations with strong damping. **99h:34088**
Liu, Bin[2] Oscillation of solutions of neutral nonlinear hyperbolic equations with doubled variable coefficients. (English summary) **99c:35254**
Liu, Zeng Rong *see* **Xu, Zhen Yuan[2], 99m:35214**
Lou, Sen-yue *see* **Zhu, Yuejin**
Ma, Da Cai *see* **Dai, Zheng De**
Ma, T. F. *see* **Andrade, Doherty, 99a:47091**
Mielke, Alexander *see* **Dangelmayr, Gerhard; et al., 99d:58002**
Mitkov, Igor (*with* Zharnitsky, Vadim) π-kinks in the parametrically driven sine-Gordon equation and applications. (English summary) (*see* **99h:00031**)
Moise, Ioana *see* **Goubet, Olivier, 99a:35259**
Mukminov, F. Kh. *see* **Bormisov, A. A.; et al., 99c:58065**
Müller, Stefan (*with* Struwe, Michael) Global existence of wave maps in 1 + 2 dimensions with finite energy data. **99b:58063**
Nakagiri, Shin-ichi *see* **Ha, Jun-Hong, 99f:34085**
Nkashama, M. N. *see* **Grossinho, Maria do Rosário, 99g:35054**
Ono, Kosuke On global solutions and blow-up solutions of nonlinear Kirchhoff strings with nonlinear dissipation. (English summary) **99e:35219**
Özer, Mehmet Naci (*with* Eser, Dursun) Derivation of separable amplitude equations by multiple scales method. (English summary) **99m:35236**
Pisani, Lorenzo *see* **Benci, Vieri; et al., 99f:35172**
Ponce, Gustavo On the well posedness of some nonlinear evolution equations. **99k:35140**
Pucci, Patrizia (*with* Serrin, James) Some new reuslts on global nonexistence for abstract evolution with positive initial energy. **99i:34086**
Qian, Min (*with* Zhou, Shengfan; Zhu, Shu) One-dimensional global attractor for the damped and driven sine-Gordon equation. (English summary) **99a:35226**
Racke, Reinhard Asymptotic behavior of damped systems and generalized Fourier transforms. (English summary) (*see* **99g:35005**)
Rao, Bopeng (*with* Wehbe, Ali) Stabilisation frontière de plaques de Kirchhoff avec résolvante non compacte. (English and French summaries) [Boundary stabilization of Kirchhoff plates with noncompact resolvent] **99k:93080**
(Raugel, G.) *see* **Dangelmayr, Gerhard; et al., 99d:58002**
Rubio, J. E. *see* **Farahi, M. H.; et al.**
Sá Barreto, Antônio *see* **Joshi, Mark S., 99c:58155**
Serrin, James *see* **Pucci, Patrizia, 99i:34086**
Soriano, J. A. *see* **Cavalcanti, M. M.; et al., 99h:35147**

Struwe, Michael *see* **Müller, Stefan, 99b:58063**
Svinin, Andrei K. On some integrable system of hyperbolic type. (English summary) **99c:35237**
Tanaka, Naoki *see* **Lin, Yuhua, 99h:34088**
Teodoru, Georgeta (*with* Drăgan, Vladimir) Continuous dependence of parameter of the solutions for differential hyperbolic inclusions. (French summary) **99m:35280**
de Teresa, Luz Exact controllability of the radial solutions of the semilinear wave equation in $\mathbf{R}^3$. (English summary) **99g:93014**
Tucsnak, Marius *see* **Jaffard, Stéphane; et al., 99g:93073**
Tzvetkov, Nickolay Existence of global solutions to nonlinear massless Dirac system and wave equation with small data. (English summary) **99i:35133**
Vitanov, Nikolay K. Breather and soliton wave families for the sine-Gordon equation. (English summary) **99h:35193**
Vitillaro, Enzo *see* **Boccuto, Antonio, 99c:34130**
Wehbe, Ali *see* **Rao, Bopeng, 99k:93080**
Wilson, D. A. *see* **Farahi, M. H.; et al.**
Xu, Zhen Yuan[2] (*with* Liu, Zeng Rong) Homoclinic orbits of truncated systems of sine-Gordon equations. (Chinese. English and Chinese summaries) **99m:35214**
Yang, Jun *see* **Guan, Xin Ping**
Yurik, İ. İ. *see* **Barannik, A. F., (99b:00027)**
Zhang, Bing-Yu Exact controllability of the generalized Boussinesq equation. (English summary) **99i:93009**
Zharnitsky, Vadim *see* **Mitkov, Igor, (99h:00031)**
Zhou, Jianxin *see* **Chen, Goong; et al., 99i:35084; 99i:35085** *and* **99i:58103**
Zhou, Shengfan *see* **Qian, Min; et al., 99a:35226**
Zhu, Shu *see* **Qian, Min; et al., 99a:35226**
Zhu, Yuejin (*with* Lou, Sen-yue) Exact solitary wave solutions of the coupled nonlinear scalar field equations. (English summary)
Zuazua, Enrique *see* **Jaffard, Stéphane; et al., 99g:93073**

35L75 Nonlinear hyperbolic PDE of higher (> 2) order

Aliev, Fakhraddin Abbasoglu On the global solvability and decay of solutions of an initial-boundary value problem for some nonlinear hyperbolic equations with dissipation on the boundary. (Russian. English and Azerbaijani summaries) **99m:35172**
Bose, Sujit Kumar (*with* Gorain, Ganesh Chandra) Stability of the boundary stabilised internally damped wave equation $y'' + \lambda y''' = c^2(\Delta y + \mu \Delta y')$ in a bounded domain in $\mathbf{R}^n$. (English summary) **99i:35106**
Boutet de Monvel-Berthier, Anne-Marie (*with* Chueshov, Igor D.) Uniqueness theorem for weak solutions of von Karman evolution equations. (English summary) **99g:35088**
Chueshov, Igor D. *see* **Boutet de Monvel-Berthier, Anne-Marie, 99g:35088**
D'Acunto, Berardino (*with* D'Anna, A.) Stability for a third order sine-Gordon equation. (English and Italian summaries) **99k:35133**
D'Anna, A. *see* **D'Acunto, Berardino, 99k:35133**
Gorain, Ganesh Chandra *see* **Bose, Sujit Kumar, 99i:35106**
Gourdin, Daniel (*with* Mechab, Mustapha) Solutions globales du problème de Goursat non linéaire dans les classes de Gevrey. (French summary) [Global solutions of the nonlinear Goursat problem in Gevrey classes] **99c:35171**
Guesmia, Aissa Existence globale et stabilisation interne non linéaire d'un système de Petrovsky. (English summary) [Global existence and nonlinear internal stabilization of a Petrovskiĭ system] **99i:35107**
Hoffmann, Karl-Heinz[1] *see* **Rybka, Piotr, 99h:35146**
Kajitani, Kunihiko (*with* Yagdzhyan, K. A.) Quasilinear hyperbolic operators with the characteristics of variable multiplicity. **99h:35145**
Kouémou-Patcheu, Solange Decay estimates for some nonlinear damped Petrovsky system. (English summary) **99a:35188**
Levandosky, Steven Paul Decay estimates for fourth order wave equations. **99b:35152**
— Stability and instability of fourth-order solitary waves. (English summary) **99b:35153**
de Lima, Osmundo A. *see* **Matos, Marivaldo P., 99k:35134**
Luca, Rodica Time periodic solutions for a nonlinear hyperbolic boundary value problem. (English and Romanian summaries) (*see* **99i:00014**)
Matos, Marivaldo P. (*with* de Lima, Osmundo A.) On a system of partial differential equations on unbounded domains. **99k:35134**
Mechab, Mustapha *see* **Gourdin, Daniel, 99c:35171**
Park, Sang Ro Remarks on quasilinear hyperbolic equations with dynamic boundary conditions. (English summary) **99m:35173**
Rybka, Piotr (*with* Hoffmann, Karl-Heinz[1]) Convergence of solutions to the equation of quasi-static approximation of viscoelasticity with capillarity. (English summary) **99h:35146**
Shirikyan, Armen (*with* Volevich, Leonid) Bounded and almost periodic solutions of linear high-order hyperbolic equations. (English summary) **99k:35135**
— *see also* **Volevich, Leonid, 99a:35189**
Song, Chang Ming *see* **Yang, Zhi Jian[2], 99e:35158**
Volevich, Leonid (*with* Shirikyan, Armen) Bounded and almost time-periodic solutions of higher-order nonlinear hyperbolic equations. (Russian. Russian summary) **99a:35189**
— *see also* **Shirikyan, Armen, 99k:35135**
Yagdzhyan, K. A. *see* **Kajitani, Kunihiko, 99h:35145**
Yang, Zhi Jian[2] (*with* Song, Chang Ming) The problem of the existence of global solutions for a class of nonlinear evolution equations. (Chinese. English and Chinese summaries) **99e:35158**
— Global solutions to a class of third-order quasilinear evolution equations. (Chinese. English and Chinese summaries) **99b:35154**

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Biagioni, Hebe A. (*with* Gramchev, Todor) Multidimensional Kuramoto-Sivashinsky type equations: singular initial data and analytic regularity. (English and Portuguese summaries) **99m:35200**
Dé Godefroy, Akmel Blow up of solutions of a generalized Boussinesq equation. (English summary) **99f:35175**
Feng, Xue Shang Well-posed solutions of the third order Benjamin-Ono equation in weighted Sobolev spaces. (English summary) **99d:35137**
Gramchev, Todor *see* **Biagioni, Hebe A., 99m:35200**
Ji, Guangcao (*with* Lasiecka, Irena) Nonlinear boundary feedback stabilization for a semilinear Kirchhoff plate with dissipation acting only via moments-limiting behavior. (English summary) **99m:93085**
Lasiecka, Irena *see* **Ji, Guangcao, 99m:93085**
Wu, Fang Tong On regularity for solution of non-linear equation with constant multiple characteristic. (English summary) **99m:35013**
You, Yuncheng Nonlinear wave equations with weak dissipation. (English summary) **99i:35142**

35L80 Hyperbolic PDE of degenerate type

Cao, Jin De *see* **Zhang, Bao Sheng, 99g:35089**
Cavalcanti, M. M. (*with* Lar'kin, N. A.; Soriano, J. A.) On solvability and stability of solutions of nonlinear degenerate hyperbolic equations with boundary damping. (English summary) **99h:35147**
Edmunds, David E. (*with* Popivanov, N. I.) A nonlocal regularization of some over-determined boundary-value problems. I. (English summary) **99c:35172**
Kharibegashvili, Sergo On the solvability of a multidimensional version of the Goursat problem for a second order hyperbolic equation with characteristic degeneration. (English and Georgian summaries) **99j:35148**
Lar'kin, N. A. *see* **Cavalcanti, M. M.; et al., 99h:35147**
Lavrenyuk, S. P. On the uniqueness of a solution of a mixed problem for one degenerated evolutional system. (English and Russian summaries)
Menteshashvili, M. Z. On the Cauchy problem with initial data on the unit circle. (Russian. English and Georgian summaries)
Mirsaburov, M. *see* **Salakhitdinov, M. S.**
Oramov, Zh. A boundary value problem for a hyperbolic equation that strongly degenerates inside the domain. (Russian. English and Uzbek summaries)
Popivanov, N. I. *see* **Edmunds, David E., 99c:35172**
Reissig, Michael On L_p-L_q estimates for solutions of a special weakly hyperbolic equation. (English summary) (*see* **99g:35005**)
Repin, O. A. Generalized operators of fractional integro-differentiation in meaning of M. Saigo and their applications. (English summary) (*see* **99i:00031**)
Salakhitdinov, M. S. (*with* Mirsaburov, M.) An analogue of the Bitsadze-Samarskiĭ problem for a class of hyperbolic-type equations. (Russian. English and Uzbek summaries)
Schulze, Bert-Wolfgang (*with* Sternin, Boris Yu.; Shatalov, V. E.) Nonstationary problems for Borel-Fuchs type equations. (English summary) **99i:35108**
Shatalov, V. E. *see* **Schulze, Bert-Wolfgang; et al., 99i:35108**
Soriano, J. A. *see* **Cavalcanti, M. M.; et al., 99h:35147**
Sternin, Boris Yu. *see* **Schulze, Bert-Wolfgang; et al., 99i:35108**
Usanetashvili, M. Conjugation problem for a second order hyperbolic system with discontinuous coefficients. (English summary)
Zhang, Bao Sheng (*with* Cao, Jin De) A regular Cauchy problem for a class of singular hyperbolic equations. (English summary) **99g:35089**

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Bouziani, Abdelfatah Solution forte d'un problème de transmission parabolique-hyperbolique pour une structure pluridimensionnelle. [Strong solution of a parabolic-hyperbolic jump problem for a multidimensional structure] **99c:35173**
Chan, Chiu Yeung (*with* Zhu, Jianmin Kevin) Blow-up of solutions of semilinear Euler-Poisson-Darboux equations with nonlocal boundary conditions. (English summary) **99i:35122**
Dreher, M. (*with* Reissig, Michael) About the C^∞-well-posedness of fully nonlinear weakly hyperbolic equations of second order with spatial degeneracy. **99b:35146**
Gvazava, D. K. (*with* Kharibegashvili, Sergo) To the theory of boundary value problems for hyperbolic type equations and systems. (English and Georgian summaries) **99d:35093**
Kajitani, Kunihiko (*with* Yagdzhyan, K. A.) Quasilinear hyperbolic operators with the characteristics of variable multiplicity. **99h:35145**
Kharibegashvili, Sergo On some multidimensional versions of a characteristic problem for second-order degenerating hyperbolic equations. (English summary) **99b:35121**
— *see also* **Gvazava, D. K., 99d:35093**
Khe Kan Cher On nontrivial solutions of some homogeneous boundary value problems for the multidimensional hyperbolic Euler-Poisson-Darboux equation in an unbounded domain. (Russian. Russian summary) **99j:35160**
Kinoshita, Tamotu Gevrey wellposedness of the Cauchy problem for the hyperbolic equations of third order with coefficients depending only on time. (English summary) **99h:35120**
Kubo, Akisato Global existence in time and decay property of solutions of boundary value problems for semilinear hyperbolic equations of second order in the interior domain. **99c:35165**
Li, Da Qian (*with* Zhang, Bing-Yu) Global exact controllability of a class of quasilinear hyperbolic systems. (English summary) **99h:93018**
Mandai, Takeshi Existence of distribution null-solutions for every Fuchsian partial differential operator. (English summary) **99j:35003**
Ono, Kosuke A note on degenerate Kirchhoff equations with nonlinear damping. (English summary) **99i:35104**
— On global existence and asymptotic stability of solutions of mildly degenerate dissipative nonlinear wave equations of Kirchhoff type. (English summary) **99b:35148**
Reissig, Michael *see* **Dreher, M., 99b:35146**
Renardy, Michael Well-posedness of the shallow water equations in the presence of a front. (English summary) **99a:35212**
Tian, Fei-Ran (*with* Ye, Jian) On the Whitham equations for the semiclassical limit of the defocusing nonlinear Schrödinger equation. (English summary) **99m:35239**
Yagdzhyan, K. A. *see* **Kajitani, Kunihiko, 99h:35145**

Yamaguti, Kaoru On global quasi-analytic solutions of the degenerate Kirchhoff equation. **99e:35155**
Ye, Jian *see* **Tian, Fei-Ran, 99m:35239**
Yuan, Hong Jun Source-type solutions of a singular conservation law with absorption. **99d:35104**
Zarubin, A. N. An integral representation of the solution of the Cauchy problem for a degenerate hyperbolic equation with retarded argument. (Russian. English and Ukrainian summaries) **99j:35226**
Zhang, Bing-Yu *see* **Li, Da Qian, 99h:93018**
Zhu, Changjiang Existence of the entropy solution for a viscoelastic model. (English summary) **99e:35135**
Zhu, Jianmin Kevin *see* **Chan, Chiu Yeung, 99i:35122**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Bachelot, Alain (*with* Pujols, Agnès) Décroissance de l'énergie locale d'une onde diffusée par un obstacle inhomogène. (French summary) [Local energy decrease in a wave scattered by a nonhomogeneous obstacle] **99j:35149**
Ferreira, Jorge On a variational inequality for a hyperbolic-parabolic equation with a Lipschitzian nonlinearity. (English summary) **99k:35136**
Pujols, Agnès *see* **Bachelot, Alain, 99j:35149**

Items with secondary classifications in 35L85

Zeng, Jin Ping (*with* Zhou, Shu Zi) Schwarz algorithm for the solution of variational inequalities with nonlinear source terms. (English summary) **99f:65097**
Zhou, Shu Zi *see* **Zeng, Jin Ping, 99f:65097**

35L99 None of the above, but in this section

Al'shin, A. B. (*with* Pletner, Yu. D.; Sveshnikov, A. G.) Unique solvability of the Dirichlet problem for the equation of ion-acoustic waves in a plasma. (Russian)
Borşa, Emilia *see* **Petrila, Titus, (99i:00014)**
Kananthai, Amnuay On the solutions of the *n*-dimensional ultra-hyperbolic operator. (English summary) **99h:35148**
Kharibegashvili, Sergo On some boundary value problems for an ultrahyperbolic equation. (English summary) **99i:35109**
Petrila, Titus (*with* Borşa, Emilia) Spectral methods for hyperbolic problems. (English and Romanian summaries) (*see* **99i:00014**)
Pletner, Yu. D. *see* **Al'shin, A. B.; et al.**
Schneider, Guido Justification of modulation equations for hyperbolic systems via normal forms. (English summary) **99m:35174**
Sveshnikov, A. G. *see* **Al'shin, A. B.; et al.**

Items with secondary classifications in 35L99

Avalos, George (*with* Lasiecka, Irena) The strong stability of a semigroup arising from a coupled hyperbolic/parabolic system. (English summary) **99h:35117**
Balk, A. M. (*with* Ferapontov, E. V.) Invariants of wave systems and web geometry. **99d:53015**
Banks, H. T. (*with* Pintér, Gabriella A.) Approximation results for parameter estimation in nonlinear elastomers. (English summary) **99f:93076**
Barbu, Viorel (*with* Favini, Angelo) Existence for an implicit nonlinear differential equation. **99m:34134**
Bărbulescu, Ion Weight integral formulas for differential equations of hyperbolic type. (English summary)
— *see also* **Rosculet, Marcel**
Bian, Wen Ming Existence results for second order nonlinear evolution inclusions. (English summary) **99m:34025**
Brauer, Uwe Breakdown of smooth solutions of the three-dimensional Euler-Poisson system. (English summary) **99c:35194**
Cavalcanti, M. M. (*with* Domingos Cavalcanti, V. N.; Rocha dos Santos, Angela; Soriano, J. A.) Exact controllability of a second-order integro-differential equation with a pressure term. (English summary) **99k:93017**
Clarke, C. J. S. Generalized hyperbolicity in singular spacetimes. (English summary) **99c:83067**
Comech, Andrew Integral operators with singular canonical relations. (English summary) **99f:58198**
Constantin, Adrian (*with* Escher, Joachim) On the Cauchy problem for a family of quasilinear hyperbolic equations. (English summary) **99i:35137**
Daletskiĭ, Yuriĭ L'vovich (*with* Steblovskaya, V. R.) On transformations of smooth measure related to parabolic and hyperbolic differential equations in infinite dimensions. (English summary) **99h:35223**
Domingos Cavalcanti, V. N. *see* **Cavalcanti, M. M.; et al., 99k:93017**
Dou, Xue-li *see* **Zhang, Guan-quan, 99m:35269**
Engel, Klaus-J. Operator matrices and systems of evolution equations. (English summary) **99a:34161**
Erdem, İpek *see* **Houshıyarı, Mastaneh, 99m:35024**
Escher, Joachim *see* **Constantin, Adrian, 99i:35137**
Favini, Angelo *see* **Barbu, Viorel, 99m:34134**
Ferapontov, E. V. *see* **Balk, A. M., 99d:53015**
Glushak, A. V. (*with* Orsingher, Enzo) General solution of a hyperbolic equation that arises in the study of motion with random acceleration. (Russian. Russian summary) **99f:35235**
Gorenflo, Rudolf (*with* Mainardi, Francesco; Srivastava, Hari M.) Special functions in fractional relaxation-oscillation and fractional diffusion-wave phenomena. (English summary) **99g:33057**
He, Yuanping *see* **Hui, Wai How, 99c:76060**
Hill, Sharon (*with* Humphreys, L. D.) Numerical mountain pass periodic solutions of a nonlinear spring equation. (English summary) **99c:34083**
Houshıyarı, Mastaneh (*with* Erdem, İpek) Global attractors for nonlinear pseudoparabolic and pseudohyperbolic equations. (English summary) **99m:35024**
Hui, Wai How (*with* He, Yuanping) Hyperbolicity and optimal coordinates for the three-dimensional supersonic Euler equations. (English summary) **99c:76060**
Humphreys, L. D. *see* **Hill, Sharon, 99c:34083**
Ishida, Haruhisa On uniform well-posedness of the abstract Cauchy problem. **99b:35208**
Jiang, Song Global solutions of the Cauchy problem for a viscous polytropic ideal gas. (English summary) **99h:35176**
Kananthai, Amnuay On the convolution equation related to the diamond kernel of Marcel Riesz. (English summary) **99k:46065**
Kenig, Carlos E. (*with* Wang, Wen Sheng[1]) Existence of local smooth solution for a generalized Zakharov system. **99m:35233**
Kolesnik, A. D. The equations of Markovian random evolution on the line. (English summary) **99h:60166**
Komornik, Vilmos (*with* Loreti, Paola) A constructive approach for the observability of coupled linear systems. (English summary) **99m:93012**
— (*with* Loreti, Paola) Ingham-type theorems for vector-valued functions and observability of coupled linear systems. (English summary) **99m:93013**
Lasiecka, Irena *see* **Avalos, George, 99h:35117**
Lattanzio, Corrado (*with* Marcati, Pierangelo) The relaxation to the drift-diffusion system for the 3-D isentropic Euler-Poisson model for semiconductors. (English summary) **99m:35251**
Lerner, Nicolas The Wick calculus of pseudo-differential operators and energy estimates. **99i:35187**
Levermore, C. David (*with* Morokoff, William J.) The Gaussian moment closure for gas dynamics. (English summary) **99f:76114**
Levine, Howard A. (*with* Serrin, James) Global nonexistence theorems for quasilinear evolution equations with dissipation. **99b:34110**
Li, Ming Zhong *see* **Song, Jie**
Liang, Jin *see* **Xiao, Ti Jun, 99b:34102**
Liu, Wei-Jiu Local boundary controllability for the semilinear plate equation. (English summary) **99b:93010**
Lomovtsev, F. E. Second-order hyperbolic differential equations with discontinuous operator coefficients. (Russian. Russian summary) **99j:34082**
Lorenzi, A. (*with* Paparoni, E.) Identification problems for pseudohyperbolic integrodifferential operator equations. (English summary) **99e:45011**
Loreti, Paola *see* **Komornik, Vilmos, 99m:93012** *and* **99m:93013**
Mainardi, Francesco *see* **Gorenflo, Rudolf; et al., 99g:33057**
Mandai, Takeshi Frobenius method for Fuchsian partial differential equations. (Japanese. English summary) (*see* **99m:35003**)
Marcati, Pierangelo *see* **Lattanzio, Corrado, 99m:35251**
Micu, Sorin Boundary stabilization for a hyperbolic system.
— (*with* Zuazua, Enrique) On a weakly damped system arising in the control of noise. (English summary) **99i:93035**
— Stabilization of a hybrid system for noise reduction. (English summary) **99m:93087**
Morokoff, William J. *see* **Levermore, C. David, 99f:76114**
Oberguggenberger, Michael (*with* Russo, Francesco) Nonlinear stochastic wave equations. (English summary) **99d:60071**
Ono, Kosuke Sharp decay estimates of solutions for mildly degenerate dissipative Kirchhoff equations. **99d:35170**
Orsingher, Enzo *see* **Glushak, A. V., 99f:35235**
Özalp, Nuri *see* **Taşdelen, Fatma, 99d:39014**
Paparoni, E. *see* **Lorenzi, A., 99e:45011**
Peretz, Ronen Mappings with a composite part and with a constant Jacobian. (English summary) **99c:14027**
Petrova, E. V. Dynamics of a system of ordinary differential equations that is associated with the telegraph equation. (Russian) **99j:34068**
Pintér, Gabriella A. *see* **Banks, H. T., 99f:93076**
Riemann, Georg Friedrich Bernhard The propagation of planar air waves of finite amplitude [Abh. Ges. Wiss. Göttingen **8** (1860), 43–65]. (*see* **99m:76076**)
Rincón Zapatero, J. P. Hyperbolic systems that arise in differential games. (Spanish) (*see* **99g:00036**)
Rocha dos Santos, Angela *see* **Cavalcanti, M. M.; et al., 99k:93017**
Rosculet, Marcel (*with* Bărbulescu, Ion) On some partial differential equations of hyperbolic type. Mean-formulas.
Russo, Francesco *see* **Oberguggenberger, Michael, 99d:60071**
Saint-Raymond, Laure Approximation isentropique du système d'Euler compressible en dimension 1. (English and French summaries) [Isentropic approximation of the compressible Euler system in one space dimension] **99g:76123**
Serrin, James *see* **Levine, Howard A., 99b:34110**
Shubov, Marianna A. Spectral operators generated by damped hyperbolic equations. (English summary) **99a:47036**
— Spectral operators generated by 3-dimensional damped wave equation and applications to control theory. (English summary) **99g:93047**
Sinestrari, Eugenio Favard classes and hyperbolic equations. (English summary) **99c:34128**
Song, Jie (*with* Li, Ming Zhong) Nonlinear Riemann-Hilbert boundary value problems for a class of *n*th order systems. (Chinese. English and Chinese summaries)
Soriano, J. A. *see* **Cavalcanti, M. M.; et al., 99k:93017**
Srivastava, Hari M. *see* **Gorenflo, Rudolf; et al., 99g:33057**
Steblovskaya, V. R. *see* **Daletskiĭ, Yuriĭ L'vovich, 99h:35223**
Taşdelen, Fatma (*with* Özalp, Nuri) Some extensions of Gallop's formulas. (English summary) **99d:39014**
Tidriri, Moulay D. Asymptotic analysis of a coupled system of kinetic equations. (English and French summaries) **99m:76099**
Uchikoshi, Keisuke Stokes operators for microhyperbolic equations. (English summary) **99k:35008**
Wang, Wen Sheng[1] *see* **Kenig, Carlos E., 99m:35233**
Xiao, Ti Jun (*with* Liang, Jin) Exponential stability of solutions for higher order abstract Cauchy problems. (English summary) **99b:34102**
Yagdzhyan, K. A. Representation theorem for the solutions of equations with the turning

point of infinite order. (English summary) **99d:34107**
Yakhno, V. G. Multidimensional inverse problems in ray formulation for hyperbolic equations. (English summary) **99m:35268**
Yao, Peng-Fei On the nonnegative square root of the fourth derivative operators. (English summary) **99i:47082**
Zhang, Guan-quan (*with* Dou, Xue-li) Potential inversion problems for coupled system of downgoing and upcoming one-way wave equations. (English summary) **99m:35269**
Zuazua, Enrique *see* **Micu, Sorin, 99i:93035**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Aarão, Jorge A transport equation of mixed type. **99i:35110**
Aldashev, S. A. On the multidimensional Dirichlet and Tricomi problems for a class of hyperbolic-elliptic equations. (Russian. English and Ukrainian summaries) **99m:35175**
Berdyshev, A. S. Some spectral properties of boundary value problems for a third-order equation with a parabolic-hyperbolic operator. (Russian. English, Russian and Kazakh summaries)
— (*with* Kadyrkulov, B. D.) The generalized Tricomi problem for the loaded Lavrent′ev-Bitsadze equation. (Russian. English and Uzbek summaries)
— On the existence of eigenvalues of a boundary value problem for a third-order parabolic-hyperbolic equation. (Russian. English and Uzbek summaries)
Bouziani, Abdelfatah Solution forte d'un problème de transmission parabolique-hyperbolique pour une structure pluridimensionnelle. [Strong solution of a parabolic-hyperbolic jump problem for a multidimensional structure] **99c:35173**
Carrillo, José A. Solutions entropiques de problèmes non linéaires dégénérés. (English and French summaries) [Entropy solutions for nonlinear degenerate problems] **99f:35137**
— (*with* Wittbold, Petra) Unicité des solutions renormalisées de problèmes elliptiques-paraboliques. (English and French summaries) [Uniqueness of renormalized solutions of elliptic-parabolic problems] **99j:35150**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) On the behavior of solutions of elliptic-parabolic equations at infinity and in a neighborhood of a boundary point. (Russian. English and Uzbek summaries) **99f:35138**
— (*with* Mamazhanov, M.) On a class of boundary value problems for a higher-order equation with a parabolic-hyperbolic operator. (Russian. English and Uzbek summaries) **99i:35111**
— (*with* Kadyrov, R. R.) A priori estimates for the L_2-norms of the derivatives of the solution of a nonlocal boundary value problem for an equation of mixed type. (Russian. English and Uzbek summaries)
Ebihara, Y. (*with* Kitada, Toshiyuki) On the behavior of explicit solutions of quasilinear hyperbolic-elliptic equations with convective term. (English summary) **99d:35110**
Èshanov, A. A. The Tricomi problem for an equation of mixed type with two lines of degeneracy and singular coefficients in the lowest terms. (Russian. English and Uzbek summaries)
Germain, Paul Les équations du type mixte et le problème de Tricomi. [Equations of mixed type and the Tricomi problem] (*see* **99f:00035**)
Hubert, Florence Global existence for hyperbolic-parabolic systems with large periodic initial data. (English summary) **99b:35155**
Isyangil′din, A. Kh. *see* **Sabitov, K. B., 99d:35111**
Kadir, Shavkat The Cauchy problem for a third-order equation of parabolic-hyperbolic type. (Russian. English and Uzbek summaries)
Kadirov, F. È. *see* **Takhirov, Zh. O., 99e:35159**
Kadyrkulov, B. D. *see* **Berdyshev, A. S.**
Kadyrov, R. R. *see* **Dzhuraev, T. D., 99f:35138**
Kapustin, N. Yu. (*with* Moiseev, Evgeniĭ Ivanovich) On spectral problems with a spectral parameter in the boundary condition. (Russian. Russian summary) **99a:35190**
Kim, R. E. On a nonlocal problem for a higher-order equation of mixed type. (Russian) (*see* **99m:00019**)
Kitada, Toshiyuki On the behavior of explicit solutions of quasilinear hyperbolic-elliptic equations with quadratic convection. (English summary) **99b:35156**
— *see also* **Ebihara, Y., 99d:35110**
Mamadaliev, N. K. The Tricomi problem for a third-order equation of parabolic-hyperbolic type of the second kind. (Russian. English and Uzbek summaries)
Mamazhanov, M. *see* **Dzhuraev, T. D., 99i:35111**
Matros, A. D. Asymptotic solution of a boundary value problem for a singularly perturbed equation of mixed type. (Russian. Russian summary) **99i:35112**
Mirsaburov, M. A problem with nonlocal boundary conditions on the elliptic part of the boundary of a mixed domain. (Russian. English and Uzbek summaries)
— On a simple generalization of the Tricomi problem. (Russian. English and Uzbek summaries)
— A problem with nonlocal boundary conditions in the elliptic part of a mixed domain for the Gellerstedt equation. (Russian. English and Uzbek summaries)
— A problem with nonlocal boundary conditions in the elliptic and hyperbolic parts of a mixed domain for the Gellerstedt equation. (Russian. English and Uzbek summaries)
Moiseev, Evgeniĭ Ivanovich *see* **Kapustin, N. Yu., 99a:35190**
Muminov, Z. M. A boundary value problem for a fourth-order equation of parabolic-hyperbolic type in a domain with a characteristic line of change of type. (Russian. English and Uzbek summaries)
Payne, Kevin R. Solvability theorems for linear equations of Tricomi type. (English summary) **99b:35157**
Popivanov, N. I. (*with* Schneider, Manfred Friedrich) Nonlocal regularization of Protter problem for the 3-D Tricomi equation. (English summary) **99f:35139**
Ruziev, M. Kh. A boundary value problem of Bitsadze-Samarskiĭ type in an unbounded domain for an equation of mixed type with singular coefficients. (Russian. English and Uzbek summaries)
Sabitov, K. B. (*with* Isyangil′din, A. Kh.) On the theory of the Tricomi problem with a nonlocal conjugation condition for equations of mixed type. (Russian) **99d:35111**
Schneider, Manfred Friedrich *see* **Popivanov, N. I., 99f:35139**
Sun, Hesheng Nonlinear system of equations of mixed type and nonlinear complex equation of mixed type. (English summary) **99b:35158**
Tagiev, F. A. On the approximate-analytical solution of one boundary problem for mixed type equation. (English summary) (*see* **99a:00041**)
Takhirov, Zh. O. (*with* Kadirov, F. È.) On some problems with unknown boundaries for a parabolic-hyperbolic equation. (Russian. English and Uzbek summaries) **99e:35159**
— The Florin problem for a parabolic-hyperbolic equation. (Russian. English and Uzbek summaries)
— (*with* Kadirov, F. È.) A nonlocal problem with an unknown boundary for a mixed parabolic-hyperbolic equation. (Russian. English and Uzbek summaries)
Tangmanee, Suwon A proof of the well-posed Tricomi equation. (English summary) (*see* **99g:00046**)
Uchikoshi, Keisuke Cauchy problems for mixed-type operators. (Japanese) (*see* **99m:35003**)
Wen, Guo Chun Oblique derivative problems for linear mixed equations of second order. (English summary) **99k:35137**
Wittbold, Petra *see* **Carrillo, José A., 99j:35150**

Items with secondary classifications in 35M10

Benzoni-Gavage, S. Stability of multi-dimensional phase transitions in a van der Waals fluid. **99b:76070**
Berdyshev, A. S. On the Volterra property of an analogue of the Tricomi problem for a third-order parabolic-hyperbolic equation. (Russian. English and Uzbek summaries) **99g:35090**
Čanić, Sunčica (*with* Keyfitz, Barbara Lee) Quasi-one-dimensional Riemann problems and their role in self-similar two-dimensional problems. (English summary) **99j:35127**
Chatelon, François Joseph (*with* Orenga, Pierre) Some smoothness and uniqueness results for a shallow-water problem. (English summary) **99b:35172**
Hattori, Harumi The Riemann problem and the existence of weak solutions to a system of mixed-type in dynamic phase transition. (English summary) **99e:35137**
Hayashi, Nakao Local existence in time of solutions to the elliptic-hyperbolic Davey-Stewartson system without smallness condition on the data. (English summary) **99f:35188**
Hernández, Gastón E. Density dependent population dispersal in $\mathbf{R}^n$. (English summary) (*see* **99d:00015**)
Keyfitz, Barbara Lee *see* **Čanić, Sunčica, 99j:35127**
Kim, Jong Uhn On the regularity of the velocity potential in two-dimensional transonic flow. (English summary) **99c:35198**
Krejčí, Pavel (*with* Sprekels, Jürgen) Global solutions to a coupled parabolic-hyperbolic system with hysteresis in 1-D magnetoelasticity. **99e:73086**
Lee, Choon-Ho The Riemann problem for a system of conservation laws of mixed type. I. (English summary) **99a:35170**
Lemeshevskiĭ, S. V. *see* **Samarskiĭ, Aleksandr Andreevich; et al., 99j:65148**
Matus, Petr P. *see* **Samarskiĭ, Aleksandr Andreevich; et al., 99j:65148**
Mirsaburov, M. *see* **Salakhitdinov, M. S.**
Muminov, Z. M. Some boundary value problems for fourth-order equations of parabolic-hyperbolic type in a domain with a noncharacteristic line of change of type. (Russian. English and Uzbek summaries) **99f:35140**
Muratbekov, M. B. Separability theorems and spectral properties of a class of differential operators with nonregular coefficients. (Russian. English, Russian and Kazakh summaries) **99g:47114**
Orenga, Pierre *see* **Chatelon, François Joseph, 99b:35172**
Repin, O. A. Generalized operators of fractional integro-differentiation in meaning of M. Saigo and their applications. (English summary) (*see* **99i:00031**)
Salakhitdinov, M. S. (*with* Mirsaburov, M.) An analogue of the Bitsadze-Samarskiĭ problem for a class of hyperbolic-type equations. (Russian. English and Uzbek summaries)
Samarskiĭ, Aleksandr Andreevich (*with* Vabishchevich, Petr N.; Lemeshevskiĭ, S. V.; Matus, Petr P.) Difference schemes for the problem of the conjugation of equations of hyperbolic and parabolic types. (Russian. Russian summary) **99j:65148**
Sprekels, Jürgen *see* **Krejčí, Pavel, 99e:73086**
Vabishchevich, Petr N. *see* **Samarskiĭ, Aleksandr Andreevich; et al., 99j:65148**
Zarubin, A. N. An initial-boundary value problem for an equation of mixed type with retarded argument. (Russian. Russian summary) **99k:35183**

35M20 PDE of composite type

Berdyshev, A. S. On the Volterra property of an analogue of the Tricomi problem for a third-order parabolic-hyperbolic equation. (Russian. English and Uzbek summaries) **99g:35090**
Castillo Aranguren, Francisco Boundary value problems for a composite equation. (Spanish. Spanish summary) (*see* **99h:00025**)
Muminov, Z. M. Some boundary value problems for fourth-order equations of parabolic-hyperbolic type in a domain with a noncharacteristic line of change of type. (Russian. English and Uzbek summaries) **99f:35140**
Nurubloev, M. A mixed problem for a second-order multidimensional system of composite type. (Russian. Tajiki summary)
Uspenskiĭ, S. V. (*with* Vasil′eva, E. N.) On the algebraic moments of the solution of the first initial-boundary value problem for the S. L. Sobolev equation in the case of special domains. (Russian) **99i:35113**
Vasil′eva, E. N. *see* **Uspenskiĭ, S. V., 99i:35113**
Yi, Le Function-theoretic methods for the composite systems of second order differential equations. (English and Chinese summaries) **99d:35112**
— Mixed problems for a class of composite systems of second-order equations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 35M20

Al′shin, A. B. (*with* Pletner, Yu. D.; Sveshnikov, A. G.) On the Dirichlet problem for the

two-dimensional ion-acoustic wave equation. (Russian. Russian summary) **99g:76154**
Belov, Yu. Ya. (*with* Shipina, T. N.) The problem of determining the source function for a system of composite type. (English summary) **99k:35188**
Ferreira, Jorge On a variational inequality for a hyperbolic-parabolic equation with a Lipschitzian nonlinearity. (English summary) **99k:35136**
Gugulashvili, E. On the uniqueness of the solution of the Cauchy problem for differential equations of Sobolev type. (Georgian. English and Russian summaries)
Krutitskiĭ, P. A. An initial-boundary value problem for the evolutionary PDE of composite type with the mixed boundary condition. (English summary) **99a:76030**
Pletner, Yu. D. *see* **Al'shin, A. B.; et al., 99g:76154**
Shipina, T. N. *see* **Belov, Yu. Ya., 99k:35188**
Sopuev, A. On an inverse problem for a third-order equation. (Russian. English and Uzbek summaries) **99f:35226**
Sveshnikov, A. G. *see* **Al'shin, A. B.; et al., 99g:76154**

35M99 None of the above, but in this section

Items with secondary classifications in 35M99

Caussignac, Ph. Incompletely parabolic systems from Friedrichs theory point of view. (English summary) **99a:35111**

35Nxx Overdetermined systems [see also 58G05, 58G07, 58Hxx]

35N05 Overdetermined systems with constant coefficients

Items with secondary classifications in 35N05

Kawohl, Bernd Was ist eine runde Sache? [What constitutes rotundity?] **99i:00007**

35N10 Overdetermined systems with variable coefficients (general)

Boiti, Chiara Evolution of overdetermined systems. (Italian)
Henrot, Antoine (*with* Philippin, Gérard A.) Some overdetermined boundary value problems with elliptical free boundaries. (English summary) **99b:35159**
Izumiya, Shyuichi (*with* Li, Bing[3]) Overdetermined systems of first order partial differential equations with singular solution. (English summary) **99i:35114**
Koike, Minoru Overdetermined systems of singular partial differential equations. **99b:35160**
Li, Bing[3] *see* **Izumiya, Shyuichi, 99i:35114**
Philippin, Gérard A. *see* **Henrot, Antoine, 99b:35159**

Items with secondary classifications in 35N10

Aftalion, Amandine (*with* Busca, Jérôme) A Serrin type result for infinite cylinders. (*see* **99d:35003**)
— (*with* Busca, Jérôme) Radial symmetry of overdetermined boundary-value problems in exterior domains. (English summary) **99h:35057**
Busca, Jérôme *see* **Aftalion, Amandine, 99h:35057** *and* **(99d:35003)**
Cordaro, Paulo D. (*with* Himonas, Alexandros Alexandrou) Global analytic regularity for sums of squares of vector fields. (English summary) **99b:35023**
Dalmasso, Robert On overdetermined eigenvalue problems for the polyharmonic operator. (English summary) **99b:35044**
Edmunds, David E. (*with* Popivanov, N. I.) A nonlocal regularization of some overdetermined boundary-value problems. I. (English summary) **99c:35172**
Himonas, Alexandros Alexandrou *see* **Cordaro, Paulo D., 99b:35023**
Isakov, Victor Some inverse problems for the diffusion equation. (English summary) **99j:35231**
Michel, Joachim (*with* Shaw, Mei-Chi) C^∞-regularity of solutions of the tangential CR-equations on weakly pseudoconvex manifolds. **99g:32032**
Palamodov, V. P. Special functions of several variables. **99m:32045**
Popivanov, N. I. *see* **Edmunds, David E., 99c:35172**
Shaw, Mei-Chi *see* **Michel, Joachim, 99g:32032**
Verbovetskiĭ, A. M. Cohomology of a compatibility complex. (Russian) **99c:58182**
Webster, Sidney M. A complex Frobenius problem. **99b:32025**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32F20 and 58G05]

Items with secondary classifications in 35N15

Adachi, Kenzō (*with* Cho, Hong Rae) Some Hölder estimates for $\overline{\partial}$ on convex domains in $\mathbf{C}^3$ with real analytic boundary. (English summary) **99b:32017**
— (*with* Hori, Hikaru) Note on the $\overline{\partial}$-problem on the complex ellipsoid. (English summary) **99b:32018**
Arai, Hitoshi Generalized Dirichlet growth theorem and applications to hypoelliptic and $\overline{\partial}_b$ equations. (English summary) **99f:35020**
Berndtsson, Bo Uniform estimates with weights for the $\overline{\partial}$-equation. (English summary) **99h:32018**
Cho, Hong Rae *see* **Adachi, Kenzō, 99b:32017**
Fontana, Luigi (*with* Krantz, Steven G.; Peloso, Marco M.) Hodge theory in the Sobolev topology for the de Rham complex. (English summary) **99a:58155**
Fornæss, John Erik (*with* Gavosto, Estela A.) The Cauchy Riemann equation on singular spaces. **99c:32022**
Gaĭsin, T. I. The Spencer complex for manifolds over algebras. (Russian. English and Russian summaries) **99j:58231**
Gavosto, Estela A. *see* **Fornæss, John Erik, 99c:32022**
Hefer, Torsten ★ Optimale Regularitätssätze für die $\overline{\partial}$-Gleichung auf gewissen konkaven und konvexen Modellgebieten. (German) [Optimal regularity theorems for the $\overline{\partial}$-equation in certain concave and convex model domains] **99g:32027**
Honda, Tatsuhiro The $\overline{\partial}$-problem on an infinite-dimensional domain. (English summary) **99k:46080**
Hori, Hikaru *see* **Adachi, Kenzō, 99b:32018**
Iwasaki, Chisato A new construction of an asymptotics for the fundamental solution for parabolic initial-boundary problem and its application to the $\overline{\partial}$-Neumann problem. **99c:58157**
Krantz, Steven G. *see* **Fontana, Luigi; et al., 99a:58155**
Michel, Joachim (*with* Shaw, Mei-Chi) Subelliptic estimates for the $\overline{\partial}$-Neumann operator on piecewise smooth strictly pseudoconvex domains. **99b:32019**
Parmeggiani, Alberto $\overline{\partial}_b$-operators on Cauchy-Riemann manifolds and almost-positivity of pseudodifferential operators. (English summary) **99k:32028**
Peloso, Marco M. *see* **Fontana, Luigi; et al., 99a:58155**
Reizner, Isabelle Analyticité globale de la solution du problème $\overline{\partial}$-Neumann pour une classe de domaines de $\mathbf{C}^n$. (English and French summaries) [Global analyticity for the $\overline{\partial}$-Neumann problem on some domains of $\mathbf{C}^n$] **99b:32020**
Shaw, Mei-Chi *see* **Michel, Joachim, 99b:32019**
Tie, Jingzhi The explicit solution of the $\overline{\partial}$-Neumann problem in a non-isotropic Siegel domain. (English summary) **99b:32021**
Toledo da Silva, João On $\overline{\partial}$-Neumann's problem in generalized functions framework. (English summary) **99j:35016**
Wu, Deyun Sobolev and Hölder estimates for $\overline{\partial}$ on bounded convex domains in $\mathbf{C}^2$. **99d:32021**
Zampieri, Giuseppe L^2-estimates with Levi-singular weight, and existence for $\overline{\partial}$. (English summary) **99k:32025**

35N99 None of the above, but in this section

Items with secondary classifications in 35N99

Aubin, Thierry ★ Some nonlinear problems in Riemannian geometry. (English summary) **99i:58001**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

35P05 General spectral theory of PDE

Alessandrini, Giovanni On Courant's nodal domain theorem. (English summary) **99g:35091**
Barbatis, Gerassimos Spectral theory of singular elliptic operators with measurable coefficients. (English summary) **99g:35092**
Ben-Artzi, Matania (*with* Nemirovsky, Jonathan) Resolvent estimates for Schrödinger-type and Maxwell equations with applications. **99e:35160**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Spectrum stability of an elliptic operator to domain perturbations. (English summary) **99i:35115**
Ciuperca, Ionel Sorinel Spectral properties of Schrödinger operators on domains with varying orders of thinness. (English summary) **99a:35191**
Filinovskiĭ, Aleksei V. On the continuity of the spectrum of the Neumann problem for second-order elliptic operators in expanding domains. (Russian) **99h:35149**
Kawashita, Mishio The poles of the resolvent of the elasticity equations. (Japanese) (*see* **99i:00030**)
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, Vladimir G.; Roßmann, Jürgen) Spectral properties of operator pencils generated by elliptic boundary value problems for the Lamé system. **99f:35141**
Lassas, Matti Inverse boundary spectral problem for non-selfadjoint Maxwell's equations with incomplete data. (English summary) **99c:35174**
Luo, Xue Bo (*with* Niu, Peng Cheng) Eigenvalue problems for operators that are sums of squares of vector fields. (Chinese. English and Chinese summaries) **99c:35175**
Maz'ya, Vladimir G. *see* **Kozlov, Vladimir Arkad'evich; et al., 99f:35141**
Nemirovsky, Jonathan *see* **Ben-Artzi, Matania, 99e:35160**
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Grande, R. (*with* Santucci, P.) Anisotropic Sobolev-Besicovitch spaces and a semielliptic differential equation. (English and Italian summaries) **99a:46059**
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— ★ Microlocal analysis and precise spectral asymptotics. (English summary) **99e:58193**
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— (*with* Klaus, Martin; van der Mee, C. V. M.) Wave scattering in one dimension with absorption. (English summary) **99b:34137**
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35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO

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— (*with* Huang, Yin Xi) A Picone's identity for the p-Laplacian and applications. **99c:35051**
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Dymarskiĭ, Ya. M. On normalized eigenfunctions of a class of quasilinear elliptic equations. (Russian. Russian summary) **99m:35057**
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Hayashi, Nakao (*with* Naumkin, Pavel I.) Remarks on scattering theory and large time asymptotics of solutions to Hartree type equations with a long range potential. (English summary) **99i:35147**
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Exner, Pavel (*with* Vugal'ter, S. A.) Bound-state asymptotic estimates for window-coupled Dirichlet strips and layers. (English summary) **99f:58211**

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Karp, Leon (*with* Peyerimhoff, Norbert) On the distribution of hypersurfaces equidistant from totally geodesic submanifolds in hyperbolic space. (English summary) **99k:58144**

Kunze, Markus Instability of the periodic motion of a particle interacting with a scalar wave field. (English summary) **99k:58181**

Lipton, Robert The second Stekloff eigenvalue and energy dissipation inequalities for functionals with surface energy. (English summary) **99c:31014**

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Nier, Francis Mourre theory for analytically fibered operators. **99i:47044**

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35Qxx Equations of mathematical physics and other areas of application [see also 35J05, 35J10, 35K05, 35L05]

Ammari, Habib (*with* Latiri-Grouz, C.) Approximate boundary conditions for thin periodic coatings. (English summary) (*see* **99d:00023**)

Gardner, Robert A. Spectral analysis of long wavelength periodic waves and applications. (English summary) **99a:35196**

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35Q05 Euler-Poisson-Darboux equation and generalizations

Chan, Chiu Yeung (*with* Zhu, Jianmin Kevin) Blow-up of solutions of semilinear Euler-Poisson-Darboux equations with nonlocal boundary conditions. (English summary) **99i:35122**

Khe Kan Cher On nontrivial solutions of some homogeneous boundary value problems for the multidimensional hyperbolic Euler-Poisson-Darboux equation in an unbounded domain. (Russian. Russian summary) **99j:35160**

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"On the nucleation of cavities in planar elasticity" Errata: "On the nucleation of cavities in planar elasticity" [Philos. Trans. Roy. Soc. London Ser. A **355** (1997), no. 1734, 2417–2458; MR 99b:73016a] by A. J. Levy.

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— (*with* Minchev, Emil) Forced oscillations of solutions of parabolic equations of neutral type with maxima. (English summary) (*see* **99d:00026**)
— (*with* Minchev, Emil) On the stability of solutions of impulsive parabolic differential-functional equations. (English summary) (*see* **99d:00026**)
— (*with* Minchev, Emil) Forced oscillations of solutions of impulsive nonlinear parabolic equations. (English summary) **99a:35264**
— (*with* Minchev, Emil) Forced oscillations of solutions of impulsive nonlinear parabolic differential-difference equations. (English summary)
Boutet de Monvel, Louis (*with* Chueshov, Igor D.; Rezunenko, A. V.) Inertial manifolds for retarded semilinear parabolic equations. **99h:35218**
Brandi, Primo (*with* Marcelli, Cristina) On mixed problem for first order partial differential functional equations. (English summary) **99j:35225**
Byszewski, Ludwik Parabolic differential problems together with impulsive nonlocal conditions. (English summary) **99g:35135**
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— (*with* Li, Wei Nian) A necessary and sufficient condition for oscillation of parabolic equations with several delays. (English summary)
— *see also* **Li, Wei Nian, 99h:35220** *and* **99k:35181**
Człapiński, Tomasz On existence and uniqueness of solutions of nonlocal problems for hyperbolic differential-functional equations in two independent variables. (English summary) **99c:35250**
— On the local Cauchy problem for nonlinear hyperbolic functional-differential equations. (English summary) **99c:35251**
Dai, Lixin (*with* Zhang, Shanjun) The stability of the solution of partial functional-differential equation with delay. (English and Japanese summaries) **99h:35219**
Drici, Zahia (*with* Vatsala, Aghalaya; Kouhestani, Nader) Generalized quasilinearization for impulsive reaction-diffusion equations with fixed moments of impulses. (English summary) **99e:35237**
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Fu, Xi Lin (*with* Wu, Jian Hong) Oscillation in neutral partial functional-differential equations and inequalities. (English summary) **99e:35238**
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Kostadinov, St. I. *see* **Petrov, G. I.; et al., 99d:35173** *and* **99d:35174**
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Li, Wei Nian (*with* Cui, Bao Tong) Oscillations of systems of neutral delay parabolic equations. (English summary) **99k:35181**
— (*with* Cui, Bao Tong) Oscillation of solutions of partial differential equations with functional arguments. (English summary) **99h:35220**
— *see also* **Cui, Bao Tong**
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— *see also* **Yu, Yuan Hong; et al., 99b:35207**
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— *see also* **Bainov, Drumi Dimitrov; et al., 99c:35249**
Ntouyas, S. K. Global existence for functional semilinear integrodifferential equations. (English summary) **99m:35254**
Onose, Hiroshi Oscillations of first order functional-differential equations and parabolic equations. **99a:35265**
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— *see also* **Boutet de Monvel, Louis; et al., 99h:35218**

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Skubachevskiĭ, A. L. Bifurcation of periodic solutions for nonlinear parabolic functional-differential equations arising in optoelectronics. **99b:35206**

So, Joseph W.-H. (*with* Yang, Yuanjie) Dirichlet problem for the diffusive Nicholson's blowflies equation. (English summary) **99m:35255**

Turo, Jan Mixed problems for quasilinear hyperbolic systems. **99a:35266**

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Wang, Peiguang Oscillatory criteria for a class of delay hyperbolic equations boundary value problem. II. (English summary) **99m:35256**

Wang, Zhi Bin *see* **Feng, Bin Lu; et al., 99g:35136**

Wu, Jian Hong *see* **Fu, Xi Lin, 99e:35238**

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Fu, Xi Lin (*with* Zhang, Li Qin[1]) Properties of solutions to a class of neutral delay differential inequalities and their applications. (Chinese. English and Chinese summaries) **99b:34131**

— *see also* **Liu, Xinzhi, 99m:34163**

Geng, Xian-Guo *see* **Wu, Yong-Tang, 99e:35230**

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Hu, Xing-Biao (*with* Zhu, Zuo-Nong) Some new results on the Blaszak-Marciniak lattice: Bäcklund transformation and nonlinear superposition formula. (English summary) **99h:58173**

Idczak, Dariusz Distributional derivatives of functions of two variables of finite variation and their application to an impulsive hyperbolic equation. (English summary) **99b:46059**

Jabłoński, Marian (*with* Góra, Paweł) Invariant measures and the compactness of the domain. (English summary) **99i:28022**

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— *see also* **Kamont, Z., 99i:65087**

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

Cannarsa, Piermarco (*with* Da Prato, Giuseppe) Potential theory in Hilbert spaces. **99a:35267**

Cerrai, Sandra Differentiability with respect to initial datum for solutions of SPDE's with no Fréchet differentiable drift term. (English summary) **99h:35221**

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Da Prato, Giuseppe *see* **Cannarsa, Piermarco, 99a:35267**

El Haddad, El Mahjoub Viscosity solutions of Hamilton-Jacobi equations in smooth Banach spaces. **99e:35240**

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Berezanskiĭ, Yuriĭ Makarovich Direct and inverse spectral problems for a Jacobi field. (Russian. Russian summary) **99e:47029**

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Kocan, Maciej (*with* Soravia, Pierpaolo) A viscosity approach to infinite-dimensional Hamilton-Jacobi equations arising in optimal control with state constraints. (English

summary) **99f:49045**

Kotarski, Wiesław Optimal control of a system governed by Petrowsky type equation with an infinite number of variables. (English summary) **99c:49021**

Kuo, Hui-Hsiung (*with* Xiong, Jie) Stochastic differential equations in white noise space. (English summary) **99m:60090**

Lávička, Roman The Lévy-Laplacian and differential operators of 2nd order in Hilbert spaces. (English summary) **99d:46064**

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Saitô, Kimiaki A C_0-group generated by the Lévy Laplacian. II. (English summary) **99k:46074**

Soravia, Pierpaolo *see* **Kocan, Maciej, 99f:49045**

Wang, Shihong Averaging of Hamilton-Jacobi equation in infinite dimensions and application. (English summary) **99b:49027**

Xiong, Jie *see* **Kuo, Hui-Hsiung, 99m:60090**

Zabczyk, Jerzy *see* **Da Prato, Giuseppe, 99f:49041**

35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]

Ali, Nasr Mostafa *see* **Kubiaczyk, Ireneusz, 99f:35219**

Chaljub-Simon, Alice *see* **Grenon-Isselkou, Nathalie; et al., 99h:35224**

Dzhabrailov, M. S. On the coercive solvability of operator-differential equations in Besov-type spaces. (Russian) **99m:35257**

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Ishida, Haruhisa On uniform well-posedness of the abstract Cauchy problem. **99b:35208**

Kubiaczyk, Ireneusz (*with* Ali, Nasr Mostafa) On the existence of weak solutions of the Darboux problem for the hyperbolic partial differential equations in Banach spaces. (English summary) **99f:35219**

Moutoussamy, Isabelle *see* **Grenon-Isselkou, Nathalie; et al., 99h:35224**

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Umarov, S. R. (*with* Nazarova, M. Kh.) On the weak well-posedness of some boundary value problems generated by a singular Bessel operator. (Russian. English and Uzbek summaries) **99f:35220**

— Nonlocal boundary value problems for pseudodifferential and operator-differential equations. II. (Russian. Russian summary) **99k:35184**

Volkmann, Peter *see* **Grenon-Isselkou, Nathalie; et al., 99h:35224**

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Chueshov, Igor D. *see* **Girya, T. V., 99k:34134**

Ghisi, Marina The Cauchy-Kovalevsky theorem and noncompactness measures. (English summary) **99h:34084**

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Keyantuo, Valentin Integrated semigroups and related partial differential equations. (English summary) **99e:47047**

Łędzewicz-Kowalewska, Urszula (*with* Nowakowski, Andrzej) Optimality conditions for control problems governed by abstract semilinear differential equations in complex Banach spaces. (English summary) **99m:49039**

Minchev, Emil *see* **Bainov, Drumi Dimitrov; et al., 99c:35249**

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35R25 Improperly posed problems for PDE

Đặng Đình Áng (*with* Nguyen Hoi Nghia; Nguyen Cong Tam) Regularized solutions of a Cauchy problem for the Laplace equation in an irregular layer: a three-dimensional model. (English summary) **99d:35175**

Nguyen Cong Tam *see* **Đặng Đình Áng; et al., 99d:35175**

Nguyen Hoi Nghia *see* **Đặng Đình Áng; et al., 99d:35175**

Padrón, Victor Sobolev regularization of a nonlinear ill-posed parabolic problem as a model for aggregating populations. **99k:35185**

Items with secondary classifications in 35R25

Annenkov, V. A. An ill-posed problem for the Stokes system. (Russian. English and Russian summaries) **99h:35155**

Cannon, John R. (*with* Yin, Hong-Ming) Blowup of solutions for parabolic equations with nonlocal functionals. (English summary) **99a:35114**

Daripa, Prabir Some useful filtering techniques for illposed problems. (English summary) **99h:65161**

Deuflhard, Peter (*with* Engl, Heinz W.; Scherzer, Otmar) A convergence analysis of iterative methods for the solution of nonlinear ill-posed problems under affinely invariant conditions. (English summary) **99j:65105**

Edmunds, David E. (*with* Popivanov, N. I.) A nonlocal regularization of some over-determined boundary-value problems. I. (English summary) **99c:35172**

Engl, Heinz W. *see* **Deuflhard, Peter; et al., 99j:65105**

Kochikov, Igor V. (*with* Kuramshina, Gulnara M.; Yagola, A. G.) Applied nonlinear ill-posed problems and the variational approach for constructing of regularizing algorithms. (*see* **99a:00030**)

Kuramshina, Gulnara M. *see* **Kochikov, Igor V.; et al., (99a:00030)**

Popivanov, N. I. *see* **Edmunds, David E., 99c:35172**

Scherzer, Otmar *see* **Deuflhard, Peter; et al., 99j:65105**

Tarama, Shigeo Remarks on L^2-wellposed Cauchy problem for some dispersive equations. **99f:35006**

Yagola, A. G. *see* **Kochikov, Igor V.; et al., (99a:00030)**

Yin, Hong-Ming *see* **Cannon, John R., 99a:35114**

35R30 Inverse problems (undetermined coefficients, etc.) for PDE

Alessandrini, Giovanni (*with* Rosset, Edi) The inverse conductivity problem with one measurement: bounds on the size of the unknown object. (English summary) **99j:35227**

Andrieux, Stéphane (*with* Ben Abda, Amel; Jaoua, Mohamed) On the inverse emergent plane crack problem. (English summary) **99d:35176**

— (*with* Ben Abda, Amel; Bui, Huy Duong) Reciprocity principle and crack identification. (English summary) **99k:35186**

Anikonov, Yu. E. (*with* Vishnevskiĭ, M. P.) Formulas in an inverse problem for an evolution equation. (Russian. Russian summary) **99g:35139**

— Several results of multidimensional inverse problems theory. (English summary) **99g:35140**

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Ayupova, N. B. (*with* Golubyatnikov, V. P.) Formal solutions of an inverse problem for a class of evolution equations. (Russian. Russian summary) **99g:35141**

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Bronsard, Lia (*with* Stoth, Barbara) The Ginzburg-Landau equations of superconductivity and the one-phase Stefan problem. (English and French summaries) **99e:82098**
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Barbu, Dorel A note on stochastic Burgers' equation with correlated noise. (English summary)
Benth, Fred Espen (*with* Streit, Ludwig) The Burgers equation with a non-Gaussian random force. **99j:35238**
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Bondarēv, B. V. Evaluation of calculated influences in parabolic systems. L_1-approach. (English summary) **99a:35282**
Chueshov, Igor D. (*with* Vuillermot, Pierre A.) Long-time behavior of solutions to a class of quasilinear parabolic equations with random coefficients. (English and French summaries) **99b:35225**
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Fouque, Jean-Pierre (*with* Papanicolaou, George C.; Samuelides, Y.) Forward and Markov approximation: the strong-intensity-fluctuations regime revisited. (English summary) **99d:35192**
Franzova, N. Long time existence for the heat equation with a spatially correlated noise term. (English summary) **99m:35278**
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Glushak, A. V. (*with* Orsingher, Enzo) General solution of a hyperbolic equation that arises in the study of motion with random acceleration. (Russian. Russian summary) **99f:35235**
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Andrews, Kevin T. (*with* Wright, Stephen James) Stochastic homogenization of elliptic boundary-value problems with L^p-data. (English summary) **99m:35021**
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35Sxx Pseudodifferential operators and other generalizations of partial differential operators [see also 47G30, 58G15]

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Malgrange, Bernard Unicité du problème de Cauchy, d'après A. P. Calderón. [Uniqueness of the Cauchy problem, after A. P. Calderón] (*see* **99f:00037**)
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Fedosov, Boris V. (*with* Schulze, Bert-Wolfgang; Tarkhanov, Nikolai N.) On the index of elliptic operators on a wedge. (English summary) **99j:58193**
Ivriĭ, V. Ya. ★ Microlocal analysis and precise spectral asymptotics. (English summary) **99e:58193**
Iwasaki, Chisato A new construction of an asymptotics for the fundamental solution for parabolic initial-boundary problem and its application to the $\overline{\partial}$-Neumann problem. **99c:58157**
Saĭdamatov, È. M. *see* **Umarov, S. R., 99f:35145**
Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Mellin operators in a pseudodifferential calculus for boundary value problems on manifolds with edges. (English summary) **99f:58208**
Schulze, Bert-Wolfgang ★ Boundary value problems and singular pseudo-differential operators. **99m:35281**
— *see also* **Schrohe, Elmar, 99f:58208** *and* **Fedosov, Boris V.; et al., 99j:58193**
Tarkhanov, Nikolai N. *see* **Fedosov, Boris V.; et al., 99j:58193**
Tataru, Daniel On the regularity of boundary traces for the wave equation. **99e:35129**
Umarov, S. R. (*with* Saĭdamatov, È. M.) On conditions for the discreteness of the spectrum for a general pseudo-differential operator. (Russian. Russian summary) **99f:35145**
— Nonlocal boundary value problems for pseudodifferential and operator-differential equations. II. (Russian. Russian summary) **99k:35184**

35S30 Fourier integral operators

Fujiwara, Daisuke (*with* Kumano-go, Naoto; Taniguchi, Kazuo) A simple proof of the Kumano-go–Taniguchi theorem. (Japanese) (*see* **99m:35003**)
Hasanov, Mahir A class of unbounded Fourier integral operators. **99g:35149**
Kumano-go, Naoto *see* **Fujiwara, Daisuke; et al., (99m:35003)**
Taniguchi, Kazuo *see* **Fujiwara, Daisuke; et al., (99m:35003)**

Items with secondary classifications in 35S30

Agliardi, R. (*with* Mari, D.) On the Cauchy problem for some non-Kowalewskian equations in $\mathcal{D}'^{\{\sigma\}}_{L^2}$. (English summary) **99b:35226**
Bony, Jean-Michel Fourier integral operators and Weyl-Hörmander calculus. **99i:58146**
Comech, Andrew Integral operators with singular canonical relations. (English summary) **99f:58198**
Greenleaf, Allan (*with* Seeger, Andreas) Fourier integral operators with cusp singularities. (English summary) **99g:58120**
Iantchenko, Alexei La forme normale de Birkhoff pour un opérateur intégral de Fourier. (English summary) [The Birkhoff normal form for a Fourier integral operator] **99e:58180**
Inoue, Atsushi[1] On a construction of the fundamental solution for the free Weyl equation by Hamiltonian path-integral method—an exactly solvable case with "odd variable coefficients". (English summary) **99b:35001**
Kasimov, Sh. G. On the uniform convergence of spectral expansions corresponding to elliptic pseudodifferential operators of continuous functions in Liouville classes. (Russian. Russian summary) **99f:35148**
Kumano-go, Naoto A proof of H. Kumano-go–Taniguchi theorem for multi-products of Fourier integral operators. **99h:47057**
Mari, D. *see* **Agliardi, R., 99b:35226**
Rabinovich, V. S. Mellin pseudodifferential operators techniques in the theory of singular integral operators on some Carleson curves. (English summary) **99f:47063**
Ruzhansky, Michael Analytic Fourier integral operators, Monge-Ampère equation and holomorphic factorization. (English summary) **99k:58178**
Seeger, Andreas *see* **Greenleaf, Allan, 99g:58120**
Smith, Hart F. A parametrix construction for wave equations with $C^{1,1}$ coefficients. (English and French summaries) **99h:35119**
Weinstein, Alan Some questions about the index of quantized contact transformations. **99h:58188**

35S50 Paradifferential operators

Items with secondary classifications in 35S50

Miyazaki, Naoya A remark on the Maslov form on the group generated by invertible Fourier integral operators. (English summary) **99c:58152**

35S99 None of the above, but in this section

Ninomiya, Haruki On a property of Nirenberg type operator. **99m:35283**

Items with secondary classifications in 35S99

Cheng, Yi[1] (*with* Li, Zhifeng) Poisson structures for dispersionless integrable systems and associated w-algebras. (English summary) **99e:58093**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Spectral estimates for positive Rockland operators. (English summary) **99m:22004**
Gontmakher, I. M. (*with* Rabinovich, V. S.) Exponential estimates of solutions of partial differential equations near singularities of coefficients. (English summary) **99f:35014**
Kohn, J. J. Hypoellipticity of some degenerate subelliptic operators. (English summary) **99m:35035**
Li, Zhifeng *see* **Cheng, Yi[1], 99e:58093**
Montseny, Gérard Diffusive representation of pseudo-differential time-operators. (English and French summaries) **99k:47126**
Parmeggiani, Alberto $\overline{\partial}_b$-operators on Cauchy-Riemann manifolds and almost-positivity of pseudodifferential operators. (English summary) **99k:32028**
Pouliquen, Ronan Opérateurs de Schrödinger à potentiels localisés sur des hypersurfaces. (English and French summaries) [Schrödinger operators with potential localized on hypersurfaces] **99b:35030**
Rabinovich, V. S. *see* **Gontmakher, I. M., 99f:35014**
Robinson, Derek W. *see* **ter Elst, A. F. M., 99m:22004**
Schilling, René L. On Feller processes with sample paths in Besov spaces. (English summary) **99b:60117**
— Growth and Hölder conditions for the sample paths of Feller processes. (English summary) **99m:60131**
Schulz, Heiko ★ Über lokale und globale Fehlerabschätzungen für adaptive Randelementmethoden. (German) [On local and global error estimates for adaptive boundary element methods] **99k:65113**
— (*with* Wendland, Wolfgang L.) Local, residual-based a posteriori error estimates forcing adaptive boundary element methods. **99j:65218**
Schwartz, Laurent Les travaux de Seeley sur les opérateurs intégraux singuliers sur une variété [MR 31 #637]. [The works of Seeley on singular integral operators on a manifold] (*see* **99f:00040**)
Uchikoshi, Keisuke Stokes operators for microhyperbolic equations. (English summary) **99k:35008**
Unterberger, André Quantization: some problems, tools, and applications. (English summary) **99f:58204**
Wendland, Wolfgang L. *see* **Schulz, Heiko, 99j:65218**

39–XX Finite differences and functional equations

39–01 Instructional exposition (textbooks, tutorial papers, etc.)

Brodskiĭ, Ya. S. (*with* Slipenko, A. K.) Functional equations and groups: a formal introduction.
Slipenko, A. K. *see* **Brodskiĭ, Ya. S.**

Items with secondary classifications in 39–01

Berrone, Lucio R. The mean value theorem: functional equations and Lagrangian means. (Spanish. Spanish summary) **99j:39018**
Forrester, P. J. *see* **Fulford, G. R.; et al., 99f:00009**
Fulford, G. R. (*with* Forrester, P. J.; Jones, Arthur Raymond) ★ Modelling with differential and difference equations. (English summary) **99f:00009**
Jones, Arthur Raymond *see* **Fulford, G. R.; et al., 99f:00009**
Reich, Ludwig *see* **Unger, Josef, 99k:39068**
Unger, Josef (*with* Reich, Ludwig) ★ Derivationen höherer Ordnung als Lösungen von Funktionalgleichungen. (German) [Derivations of higher order as solutions of functional equations] **99k:39068**

39–02 Research exposition (monographs, survey articles)

Cheng, Sui Sun An underdeveloped research area: qualitative theory of functional partial difference equations. **99e:39001**

Items with secondary classifications in 39–02

Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) ★ Stability of functional equations in several variables. (English summary) **99i:39035**
Isac, George *see* **Hyers, Donald H.; et al., 99i:39035**
Rassias, Themistocles M. *see* **Hyers, Donald H.; et al., 99i:39035**

39–06 Proceedings, conferences, collections, etc.

(Agarwal, Ravi P.) *see* **Advances in difference equations, 99h:39001**
(Elaydi, Saber N.) *see* **Advances in difference equations, 99d:39001**
(Györi, István) *see* **Advances in difference equations, 99d:39001**
(Ladas, G.) *see* **Advances in difference equations, 99d:39001**

Items listed otherwise than by author

Advances in difference equations ★ Advances in difference equations. **99d:39001**
— ★ Advances in difference equations. II. **99h:39001**
Conference:
Difference Equations ★ Advances in difference equations. **99d:39001**
Veszprém ★ Advances in difference equations. **99d:39001**

39Axx Difference equations {For dynamical systems, see 58Fxx.}

39A10 Difference equations [see also 33Dxx]

Abadeer, A. A. *see* **Grace, S. R.; et al., 99k:39010**
Abramov, Sergei A. (*with* Paule, Peter; Petkovšek, Marko) q-hypergeometric solutions of q-difference equations. (English summary) **99f:39001**
Abu-Saris, Raghib (*with* Allan, Fathi) Periodic and nonperiodic solutions of the difference equation $x_{n+1} = \max\{x_n^2, A\}/x_n x_{n-1}$. (English summary) **99e:39002**
Agarwal, Ravi P. (*with* Pandian, Subbiah; Thandapani, E.) Oscillatory property for second-order nonlinear difference equations via Lyapunov's second method. **99a:39001**
— Variation of parameter methods for difference equations and applications. (English summary) **99e:39003**
— (*with* Wong, Fu-Hsiang) Existence of positive solutions for higher order difference equations. (English summary) **99a:39002**
— (*with* Sambandham, M.) Multipoint boundary value problems for general discrete systems. (English summary) **99b:39001**
— (*with* Romanenko, E. Yu.) Stable periodic solutions of difference equations. (English summary) **99a:39003**
— (*with* Henderson, Johnny) Positive solutions and nonlinear eigenvalue problems for third-order difference equations. (English summary) **99j:39001**
— (*with* O'Regan, Donal) A fixed-point approach for nonlinear discrete boundary value problems. (English summary) **99k:39003**
— (*with* Pituk, Michal) Convergence to equilibria in recurrence equations. (English summary) **99k:39004**
— (*with* O'Regan, Donal) Difference equations in abstract spaces. (English summary) **99d:39002**
— (*with* Wong, Fu-Hsiang; Yu, Shiueh-Ling) Existence of solutions to $(k, n-k-2)$ discrete boundary value problems. (English summary) **99k:39001**
— (*with* Wong, Patricia J. Y.) On the oscillation of second order nonlinear difference equations. (English summary) **99k:39002**
— (*with* Wong, Fu-Hsiang) An application of topological transversality to non-positive higher order difference equations. (English summary) **99m:39001**
— (*with* Popenda, Jerzy) On the oscillation of recurrence equations. **99m:39002**
— *see also* **Wong, Patricia J. Y., 99c:39010; 99c:39012; 99j:39012; 99k:39040; 99k:39042; 99k:39043; 99m:39012; 99m:39013** *and* **Thandapani, E., 99g:39015**
Alaca, Ayşe (*with* Mingarelli, Angelo B.) An inverse matrix eigenvalue problem. (English summary) **99a:39004**
Allan, Fathi *see* **Abu-Saris, Raghib, 99e:39002**
Amleh, A. M. (*with* Hoag, Jeffrey T.; Ladas, G.) A difference equation with eventually periodic solutions. (English summary) **99j:39002**
— (*with* Grove, E. A.; Kent, C. M.; Ladas, G.) On some difference equations with eventually periodic solutions. (English summary) **99f:39002**
Anderson, Douglas Robert Discrete trigonometric matrix functions. (English summary) **99e:39004**
— A $2n$th order linear difference equation. (English summary) **99k:39005**
— (*with* Avery, Richard I.; Peterson, Allan C.) Three positive solutions to a discrete focal boundary value problem. (English summary) **99b:39002**
— Green's function for an n-point discrete right focal boundary value problem. (English summary) **99e:39005**
Aomoto, Kazuhiko Analytic difference equations and connection problems.
Arriola, Leon Applications of Lie groups to first order difference equations. (English summary) **99e:39006**
Arul, R. *see* **Thandapani, E., 99c:39009**
Atakishiev, N. M. Continuous solutions of difference equations and their orthogonality relations. (English summary) **99a:39005**
Aulbach, Bernd (*with* Nguyễn Văn Minh; Zabreĭko, Petr Petrovich) Structural stability of linear difference equations in Hilbert space. (English summary) **99m:39003**
— The fundamental existence theorem on invariant fiber bundles. (English summary) **99a:39006**
Avery, Richard I. Three positive solutions of a discrete second order conjugate problem. (English summary) **99c:39001**
— (*with* Peterson, Allan C.) Multiple positive solutions of a discrete second order conjugate problem. (English summary) **99i:39001**
— *see also* **Anderson, Douglas Robert; et al., 99b:39002**
Bakirova, M. I. (*with* Dorodnitsyn, V. A.; Kozlov, R. V.) Symmetry-preserving difference schemes for some heat transfer equations. (English summary) **99d:39003**
Balla, Katalin Asymptotic behavior of certain Riccati difference equations. (English summary) **99k:39006**
Berg, Lothar (*with* Plonka, Gerlind) Compactly supported solutions of two-scale difference equations. (English summary) **99h:39002**
Bohner, Martin (*with* Došlý, Ondřej) Disconjugacy and transformations for symplectic systems. (English summary) **99e:39007**
— Discrete linear Hamiltonian eigenvalue problems. (English summary) **99m:39004**
— Discrete Sturmian theory. (English summary) **99e:39008**
Boĭchuk, A. A. Boundary value problems for systems of difference equations. (Russian. English and Ukrainian summaries) **99b:39003**
Budinčević, Mirko Oscillation of a second order neutral difference equation. (English summary) **99g:39001**
Castillo, Samuel (*with* Pinto, Manuel) Asymptotic formulae for solutions of delay-difference systems. (English summary) **99i:39002**
— (*with* Pinto, Manuel) Asymptotic summation for second-order finite difference systems. (English summary) **99e:39009**
Chaĭkovskiĭ, A. V. Bounded solutions of a difference equation in a Banach space. (Russian) **99j:39003**
Chen, Guoting Forme normale d'Arnold et réduction formelle des systèmes d'équations linéaires aux différences. (English summary) [Arnol'd normal form and formal reduction of systems of linear difference equations] **99g:39002**
— (*with* Fahim, Abdelmajid) Formal reduction of linear difference systems. (English summary) **99d:39004**
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— *see also* **Xiao, Yan Ni, 99i:39018**
Chen, Li Ming (*with* Lin, Yi Zhong; Cheng, Sui Sun) Exact regions of oscillation for a difference equation with six parameters. (English summary) **99f:39003**
Chen, Ming-Po *see* **Zhang, Shu Nian, 99k:39051**
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— (*with* Lin, Yi Zhong) Bounds for solutions of a four-point partial difference scheme. (English summary) **99g:39003**
— (*with* Zhang, Bing Gen) Nonexistence criteria for positive solutions of a discrete elliptic equation. (English summary) **99g:39004**
— (*with* Zhang, Guang) Monotone solutions of a higher-order neutral difference equation. (English summary) **99b:39004**
— (*with* Lin, Yi Zhong) Complete characterizations of an oscillatory neutral difference equation. (English summary) **99g:39005**
— Errata to: "Oscillation criteria for a nonlinear difference equation" [Comput. Math. Appl. **36** (1998), no. 8, 87–94; MR 99k:39024a] by W. T. Li and Cheng. **99k:39024b**
— *see also* **Domshlak, Yu. I., 99a:39010; Lin, Yi Zhong, 99a:39019; Liu, Shu Tang[2], 99d:39010; 99d:39011; Li, Wan Tong, 99e:39028; Xie, Sheng Li, 99e:39047; Chen, Li Ming; et al., 99f:39003; Liu, Shu Tang[2], 99g:39009; Liu, Bin[2], 99h:39007; Zhang, Guang, 99i:39022; Li, Wan Tong, 99k:39024a; 99k:39025; Tian, Chuan-Jun; et al., 99k:39039; Xie, Sheng Li; et al., 99k:39044** *and* **Zhang, Guang; et al., 99k:39050**
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Clark, Dean (*with* Lewis, James T.) Symmetric solutions to a Collatz-like system of difference equations. (*see* **99i:00021**)
Crisci, Maria Rosaria (*with* Kolmanovskiĭ, Vladimir B.; Russo, Elvira; Vecchio, Antonia) Boundedness of discrete Volterra equations. (English summary) **99e:39010**
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— (*with* Tu, Xiao Jie) Oscillation for a class of nonlinear neutral difference equations. (Chinese. English and Chinese summaries) **99e:39011**
— (*with* Huang, Li Hong; Zhou, Zhan) Convergence of solutions for a class of difference equations with variable delay. (English summary) **99h:39004**

— (*with* Huang, Li Hong) Asymptotic behavior and existence of positive solutions for a neutral difference equation. (English summary) **99i:39004**
— (*with* Huang, Li Hong) Convergence of solutions for a class of neutral difference equations. (English summary) **99h:39005**
— *see also* **Tu, Xiao Jie, 99a:39036** *and* **Zhou, Zhan; et al., 99i:39024**
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— (*with* de Korvin, Andre; Koh, E. L.) A fuzzy difference equation with an application. (English summary) **99b:39006**
Defez, Emilio (*with* Ponsoda, E.) Explicit solutions for a class of second-order nonautonomous coupled difference systems with initial conditions. (Spanish. Spanish summary) (*see* **99g:00036**)
Deng, Yuan Bei *see* **Tang, Qing Gan, 99i:39016**
Denis'evskiĭ, N. A. Existence of a bounded solution of a nonlinear difference equation on **Z**. (Russian) (*see* **99a:00016**)
DeVault, R. (*with* Ladas, G.; Schultz, S. W.) On the recursive sequence $x_{n+1} = A/x_n^p + B/x_{n-1}^q$. (English summary) **99e:39013**
— (*with* Ladas, G.; Schultz, S. W.) On the recursive sequence $x_{n+1} = A/x_n + 1/x_{n-2}$. (English summary) **99a:39009**
Domshlak, Yu. I. (*with* Cheng, Sui Sun) Sturmian theorems for a partial difference equation. (English summary) **99a:39010**
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Dorogovtsev, A. Ya. (*with* Lagoda, O. A.) On bounded solutions of a difference equation in a Banach space. (Russian) (*see* **99a:00017**)
Došlý, Ondřej Reciprocity principle for Sturm-Liouville difference equations and some of its applications. (English summary) **99e:39015**
— (*with* Řehák, Pavel) Conjugacy criteria for second-order linear difference equations. (English summary) **99i:39005**
— Factorization of disconjugate higher-order Sturm-Liouville difference operators. (English summary) **99j:39004**
— Oscillation criteria for higher order Sturm-Liouville difference equations. (English summary) **99m:39005**
— *see also* **Bohner, Martin, 99e:39007**
Drozdowicz, Andrzej (*with* Migda, Małgorzata) Asymptotic behavior of solutions of the mth-order nonhomogeneous difference equations. (English summary) **99a:39011**
Duan, Zhen Hua (*with* Tang, Xian Hua) Oscillation criteria for solutions of nonlinear neutral difference equations. (Chinese. English and Chinese summaries) **99k:39008**
Elaydi, Saber N. (*with* Papaschinopoulos, Garyfalos; Schinas, John) Asymptotic theory for noninvertible systems. (English summary) **99e:39016**
— (*with* Janglajew, K.) Dichotomy and trichotomy of difference equations. **99a:39012**
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Ferreira, José M. (*with* Pedro, Ana M.) Oscillations of delay difference systems. (English summary) **99e:39017**
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— Oscillation of certain neutral difference equations of mixed type. (English summary) **99k:39011**
Graef, John R. (*with* Miciano-Cariño, Agnes; Qian, Chuanxi) A Sturm type comparison theorem for higher order nonlinear difference equations. (English summary) **99f:39005**
— (*with* Miciano-Cariño, Agnes; Qian, Chuanxi) A comparison result for nonlinear difference equations. (*see* **98i:00029**)
— *see also* **Thandapani, E.; et al., 99j:39011** *and* **99k:39037**
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— (*with* Ohta, Yasuhiro; Ramani, A.; Sakai, Hidetaka) Degeneration through coalescence of the q-Painlevé VI equation. (English summary) **99g:39007**
— *see also* **Ramani, A.; et al., 99g:39013**
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— (*with* Kent, C. M.; Ladas, G.) Lyness equations with variable coefficients. (English summary) **99f:39007**
— *see also* **Amleh, A. M.; et al., 99f:39002**
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Guan, Xin Ping (*with* Yang, Jun; Rong, Qinghao) Asymptotic and oscillatory behavior of nth order neutral difference equation with forced term. (English summary) **99j:39005**
Gupta, Ramesh C. On particular solutions of linear difference equations with constant coefficients. (English summary) **99i:39007**
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— *see also* **Agarwal, Ravi P., 99j:39001**
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Myshkis, Anatolii *see* **Filimonov, A. M.,** (**99d:39001**)
Najman, B. *see* **Fleige, Andreas, 99g:47082**
Nikonov, E. G. Fast algorithm for matrix-vector multiplication of discrete biharmonic Poincaré-Steklov operator. (English summary) **99e:65159**

Novikov, Sergeĭ Petrovich (*with* Dynnikov, I. A.) Discrete spectral symmetries of small-dimensional differential operators and difference operators on regular lattices and two-dimensional manifolds. (Russian) **99e:35029**
Okun′kov, Andreĭ Binomial formula for Macdonald polynomials and applications. (English summary) **99a:33014**
Opdam, E. M. *see* **Heckman, G. J., 99g:33052a** *and* **99g:33052b**
Osilenker, Boris P. An analogue of the trace formula for discrete Sturm-Liouville operators with asymptotically N-periodic coefficients. (Russian) **99c:47040**
Sahai, Vivek On models of $U_q(\mathrm{sl}(2))$ and q-Euler integral transformation. (English summary) **99h:33062**
Shang, Peng Jian Continuous spectrum measure of a class of Schrödinger operators. (English and Chinese summaries) **99a:47052**
— The influence of symmetry on the existence of eigenvectors of the Schrödinger operator. (Chinese. English and Chinese summaries) **99i:47064**
Simon, Barry *see* **Kiselev, Alexander; et al., 99g:34167**
Southern, B. W. *see* **Lavis, D. A.; et al., 99b:47050**
Trimèche, Khélifa *see* **Ben Salem, N., 99g:33018**
Valette, Alain *see* **Béguin, Cédric; et al., 99e:60025**
Van der Jeugt, Joris Orthogonal polynomial identities from tensor product decompositions. **99i:33013**
Wang, Jun[1] *see* **Hsu, Leetsch Charles, 99g:11010**
Wilde, I. F. *see* **Lavis, D. A.; et al., 99b:47050**
Wong, Fu-Hsiang *see* **Agarwal, Ravi P.; et al., 99k:39001**
Yavorskiĭ, Yu. M. *see* **Lyantse, V. È., 99g:47074**
Yu, Shiueh-Ling *see* **Agarwal, Ravi P.; et al., 99k:39001**
Yu, Wen Sheng (*with* Lin, Shi-zhong; Yu, Yuan Hong) Oscillation of second-order delay difference equations. (Chinese. English and Chinese summaries) **99a:39039**
Yu, Yuan Hong *see* **Yu, Wen Sheng; et al., 99a:39039**
Zhang, Zuo Yuan An algebraic principle for the stability of difference operators. (English summary) **99b:39020**
Żuk, Andrzej *see* **Béguin, Cédric; et al., 99e:60025**

39A99 None of the above, but in this section

Hirota, Ryogo Conserved quantities of "random-time Toda equation". (English summary) (*see* **99a:00024**)

Items with secondary classifications in 39A99

Hikami, Kazuhiro (*with* Komori, Yasushi) Diagonalization of the elliptic Ruijsenaars model of type-BC. (English summary) **99k:82021**
Komori, Yasushi *see* **Hikami, Kazuhiro, 99k:82021**
de la Sen, Manuel Sufficient conditions for Lyapunov's global stability of time-varying hybrid linear systems. (English summary) **99m:93072**

39Bxx Functional equations [see also 30D05]

Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) ★ Stability of functional equations in several variables. (English summary) **99i:39035**
Isac, George *see* **Hyers, Donald H.; et al., 99i:39035**
Rassias, Themistocles M. *see* **Hyers, Donald H.; et al., 99i:39035**

39B05 General

Berrone, Lucio R. The mean value theorem: functional equations and Lagrangian means. (Spanish. Spanish summary) **99j:39018**
El-Sayed, Ahmed M. A. (*with* El-Sayed, Wagdy G.; Moustafa, Osama L.) On some fractional functional equations. (English summary) **99a:39051**
El-Sayed, Wagdy G. *see* **El-Sayed, Ahmed M. A.; et al., 99a:39051**
Monreal, Amadeo (*with* Tomás, Maria Santos) On some functional equations arising in computer graphics. (English summary) **99f:39031**
Moustafa, Osama L. *see* **El-Sayed, Ahmed M. A.; et al., 99a:39051**
Skof, Fulvia The general solution of the Cauchy equation on some restricted domains in $\mathbf{R}^2$ in terms of Hamel-bases without use of extensions. (English and Italian summaries) **99e:39079**
Tomás, Maria Santos *see* **Monreal, Amadeo, 99f:39031**

Items with secondary classifications in 39B05

Aczél, János (*with* Maksa, Gyula) Inequalities for selection probabilities. (English summary) **99c:90005**
Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, Maria Santos) Some remarkable lines of triangles in real normed spaces and characterizations of inner product structures. (English summary) **99b:39031**
Guijarro Carranza, Piedad *see* **Alsina, Claudi; et al., 99b:39031**
Maksa, Gyula *see* **Aczél, János, 99c:90005**
Miller, Harry I. (*with* Schnitzer, Franz Josef; Wyzinski, Henry L.) On a result of M. Kuczma. (English summary) **99c:28003**
Schnitzer, Franz Josef *see* **Miller, Harry I.; et al., 99c:28003**
Tomás, Maria Santos *see* **Alsina, Claudi; et al., 99b:39031**
Wyzinski, Henry L. *see* **Miller, Harry I.; et al., 99c:28003**

39B12 Iteration theory, iterative and composite equations [see also 26A18, 30D05, 58F08]

Baier, Gerold *see* **Kittel, A.; et al., 99a:39052**
Bartłomiejczyk, Lech Solutions with big graph of homogeneous functional equations in a single variable. (English summary) **99f:39032**
de Carvalho, Lindomar B. *see* **Gonzalez, Jorge A., 99h:39022**
Ciepliński, Krzysztof (*with* Grząślewicz, Andrzej) On a problem related to the generalized Schilling equation. (English summary) **99i:39036**
Ebanks, Bruce R. Quasi-homogeneous associative functions. (English summary) **99f:39033**
Fan, Qinjie (*with* Li, Huiru; Zhai, Yanhui) Topological entropy for solutions of p-order Feigenbaum's functional equations. (English summary) **99f:39034**
Fodor, János C. (*with* Marichal, Jean-Luc) On nonstrict means. (English summary) **99f:39035**
Ger, Roman Indexed families of bijections and iterable functions. (English summary) (*see* **99h:58001**)
Gonzalez, Jorge A. (*with* de Carvalho, Lindomar B.) Analytical solutions to multivalued maps. (English summary) **99h:39022**
Gronau, Detlef An asymptotic formula for the iterates of a function and related functional equations. (English summary) **99g:39023**
— Gottlob Frege, a pioneer in iteration theory. (English summary) (*see* **99h:58001**)
Grząślewicz, Andrzej *see* **Ciepliński, Krzysztof, 99i:39036**
Jarczyk, Witold Series of iterates summing up to the identity function. (*see* **99h:58001**)
Jaroszewski, I. (*with* Kwaśniewski, A. K.) On a dynamics of the Möbius mapping and Clifford numbers. (English summary) **99c:39024**
Jia, Rong Qing (*with* Riemenschneider, Sherman D.; Zhou, Ding-Xuan) Approximation by multiple refinable functions. (English summary) **99f:39036**
Kahlig, Peter (*with* Matkowski, Janusz) Envelopes of families of curves related to some iterative functional equations. (English summary) (*see* **99h:58001**)
Kittel, A. (*with* Parisi, Jürgen; Peinke, J.; Baier, Gerold; Klein, Michael; Rössler, Otto E.) Unifying iteration rule for fractal objects. (English summary) **99a:39052**
Klein, Michael *see* **Kittel, A.; et al., 99a:39052**
Kwaśniewski, A. K. *see* **Jaroszewski, I., 99c:39024**
Leśniak, Zbigniew On continuous iteration groups of some homeomorphisms of the plane. (English summary) (*see* **99h:58001**)
Li, Huiru *see* **Fan, Qinjie; et al., 99f:39034**
Marichal, Jean-Luc *see* **Fodor, János C., 99f:39035**
Matkowski, Janusz Iteration groups with generalized convex and concave elements. (English summary) (*see* **99h:58001**)
— (*with* Zhang, Wei Nian) Characteristic analysis for a polynomial-like iterative equation. (English summary) **99h:39023**
— *see also* **Kahlig, Peter, (99h:58001)**
Morawiec, Janusz Some properties of probability distribution solutions of linear functional equations. (English summary) **99m:39021**
Mukherjea, Arunava (*with* Ratti, J. S.) A functional equation involving iterates of a bijection on the unit interval. II. **99d:39021**
Ollerton, Richard L. (*with* Whitaker, Richard N.) Some more first-order recurrence relations and their inverses. **99e:39080**
Parisi, Jürgen *see* **Kittel, A.; et al., 99a:39052**
Peinke, J. *see* **Kittel, A.; et al., 99a:39052**
Ratti, J. S. *see* **Mukherjea, Arunava, 99d:39021**
Riemenschneider, Sherman D. *see* **Jia, Rong Qing; et al., 99f:39036**
Rössler, Otto E. *see* **Kittel, A.; et al., 99a:39052**
Rychlik, Marek (*with* Torgerson, Mark) Algebraic non-integrability of the Cohen map. (English summary) **99c:39025**
Sablik, Maciej On an iterative functional equation. (English summary) (*see* **99h:58001**)
Smajdor, Andrzej Increasing iteration semigroups of Jensen set-valued functions. (English summary) **99g:39024**
Tabor, Józef Iteration groups of continuous functions possessing fixed points. **99g:39025**
Takeuchi, Yu Convergence set of the recurrence formula and Cantor's ternary set. (Spanish. English and Spanish summaries) **99h:39024**
Torgerson, Mark *see* **Rychlik, Marek, 99c:39025**
Walorski, Janusz Thron's theorems in Banach spaces. (English summary) (*see* **99h:58001**)
Whitaker, Richard N. *see* **Ollerton, Richard L., 99e:39080**
Zdun, Marek Cezary On the orbits of disjoint groups of continuous functions. (English and Serbo-Croatian summaries) **99a:39053**
— On the structure of iteration groups of homeomorphisms having fixed points. (English summary) **99c:39026**
Zhai, Yanhui *see* **Fan, Qinjie; et al., 99f:39034**
Zhang, Wei Nian *see* **Matkowski, Janusz, 99h:39023**
Zhou, Ding-Xuan *see* **Jia, Rong Qing; et al., 99f:39036**

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Bajger, Mariusz On the structure of some flows on the unit circle. (English summary) **99m:58159**
Bratteli, Ola (*with* Jorgensen, Palle E. T.) Isometries, shifts, Cuntz algebras and multiresolution wavelet analysis of scale N. (English summary) **99k:46094b**
— (*with* Jorgensen, Palle E. T.) Iterated function systems and permutation representations of the Cuntz algebra. (English summary) **99k:46094a**
Briggs, K. M. (*with* Dixon, Tony W.; Szekeres, George) Analytic solutions of the Cvitanović-Feigenbaum and Feigenbaum-Kadanoff-Shenker equations. (English summary) **99h:58054**
Chen, Di-Rong On linear independence of integer translates of refinable vectors. (English summary) **99f:42063**
Dixon, Tony W. *see* **Briggs, K. M.; et al., 99h:58054**
Jabłoński, Wojciech On some subsemigroups of the group L_s^1. (English summary) **99e:39089**
Jia, Rong Qing (*with* Riemenschneider, Sherman D.; Zhou, Ding-Xuan) Vector subdivision schemes and multiple wavelets. (English summary) **99d:42062**
Jorgensen, Palle E. T. *see* **Bratteli, Ola, 99k:46094a** *and* **99k:46094b**
Maĭstrenko, Yurīĭ L. (*with* Popovich, O. V.) Existence and stability of periodic solutions of chains of coupled oscillators. (Ukrainian. English and Ukrainian summaries) **99b:58132**
Máté, László On infinite products of affine mappings of $\mathbf{R}^n$. (English summary) **99e:58127**
Micchelli, Charles A. (*with* Sauer, Thomas) Regularity of multiwavelets. (English summary) **99d:42067**
Mohseni Moghadam, Mahmoud (*with* Panahi, Mehdi) Application of iterates of maps on the unit interval concerning equicontinuity and its various equivalent forms. (English and Persian summaries) **99j:26003**

Mulvey, Irene A geometric algorithm to decide the forcing relation on cycles. (English summary) **99j:58164**
Nguyễn Khoa So'n Approximate controllability with positive controls. (English summary) **99g:93012**
Olko, Jolanta Selections of an iteration semigroup of linear set-valued functions. (English summary) **99f:28017**
Panahi, Mehdi *see* **Mohseni Moghadam, Mahmoud**, **99j:26003**
Popovich, O. V. *see* **Maĭstrenko, Yurīĭ L.**, **99b:58132**
Reich, Ludwig On the local distribution of analytic contractions in $\mathbf{C}^3$ with respect to embeddability. (*see* **99h:58001**)
— On the local distribution of analytic contractions in $\mathbf{C}^3$ with respect to embeddability. **99m:32001**
— *see also* **Iteration theory (ECIT 94)**, **99h:58001**
Reinfelds, Andrejs The reduction of discrete dynamical systems in metric space. (English summary) **99j:39010**
Riemenschneider, Sherman D. *see* **Jia, Rong Qing; et al.**, **99d:42062**
Sauer, Thomas *see* **Micchelli, Charles A.**, **99d:42067**
(Smítal, Jaroslav) *see* **Iteration theory (ECIT 94)**, **99h:58001**
Stolarsky, Kenneth B. A prelude to the $3x + 1$ problem. (English summary) **99k:11037**
Szekeres, George *see* **Briggs, K. M.; et al.**, **99h:58054**
(Targonski, György) *see* **Iteration theory (ECIT 94)**, **99h:58001**
Wirsching, Günther J. ★ The dynamical system generated by the $3n + 1$ function. **99g:11027**
Zhou, Ding-Xuan *see* **Jia, Rong Qing; et al.**, **99d:42062**

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Conference:
Iteration Theory ★ Iteration theory (ECIT 94). **99h:58001**
Iteration theory (ECIT 94) ★ Iteration theory (ECIT 94). **99h:58001**
Opava ★ Iteration theory (ECIT 94). **99h:58001**

39B22 Equations for real functions

Aczél, János What to do until (and when) the functional equationist arrives. (English summary) **99c:39027**
Belitskiĭ, G. R. (*with* Lyubich, Yu. I.) The Abel equation and total solvability of linear functional equations. (English summary) **99e:39081**
Berrone, Lucio R. (*with* Moro, Julio) Lagrangian means. (English summary) **99d:39022**
Boros, Zoltán Regular functions that preserve digital representation. (English summary) **99h:39025**
Chen, Fangyue Expression of the Feigenbaum function. (English summary) (*see* **99g:00046**)
Cheng, Raymond (*with* Dasgupta, Abhijit; Ebanks, Bruce R.; Kinch, L. F.; Larson, L. M.; McFadden, Robert B.) When does $f^{-1} = 1/f$? **99h:39026**
Choczewski, Bogdan A special solution of the inhomogeneous Schröder equation. (English summary) **99i:39037**
Dasgupta, Abhijit *see* **Cheng, Raymond; et al.**, **99h:39026**
Deeba, Elias Y. (*with* Koh, E. L.; Sahoo, Prasanna K.; Xie, Shishen) On a distributional analog of a sum form functional equation. (English summary) **99a:39054**
— (*with* Sahoo, Prasanna K.; Xie, Shishen) On a class of functional equations in distribution. (English summary) **99g:39026**
Dinsenbacher, Thomas B. (*with* Hardin, Douglas P.) Nonhomogeneous refinement equations. (English summary) **99a:39055**
Ebanks, Bruce R. *see* **Cheng, Raymond; et al.**, **99h:39026**
Ger, Joanna (*with* Sablik, Maciej) The law of large numbers and a functional equation. (English summary) **99b:39026**
Gilányi, Attila A characterization of monomial functions. (English summary) **99g:39027**
— On locally monomial functions. (English summary) **99c:39028**
— On Hyers-Ulam stability of monomial functional equations. **99k:39063**
— On the stability of the square-norm equation. (English summary) **99e:39082**
Hardin, Douglas P. *see* **Dinsenbacher, Thomas B.**, **99a:39055**
Hintz, Martin On proportion polynomials. (English summary) **99k:39064**
Járai, Antal (*with* Sander, Wolfgang) A regularity theorem in information theory. (English summary) **99c:39029**
— Regularity property of the functional equation of the Dirichlet distribution. (English summary) **99e:39083**
Jung, Soon-Mo On solution and stability of functional equation $f(x+y)^2 = af(x)f(y) + bf(x)^2 + cf(y)^2$. (English summary) **99b:39027**
— On the modified Hyers-Ulam-Rassias stability of the functional equation for gamma function. **99f:39037**
— On the stability of gamma functional equation. (English summary) **99f:39038**
Kahlig, Peter (*with* Smítal, Jaroslav) On a parametric functional equation of Dhombres type. (English summary) **99j:39019**
Kannappan, Palaniappan (*with* Riedel, Thomas; Sahoo, Prasanna K.) On a functional equation associated with Simpson's rule. (English summary) **99g:39028**
— (*with* Sahoo, Prasanna K.) On generalizations of the Popeiu functional equation. (English summary) **99b:39028**
Kinch, L. F. *see* **Cheng, Raymond; et al.**, **99h:39026**
Koh, E. L. *see* **Deeba, Elias Y.; et al.**, **99a:39054**
Lajkó, Károly On a functional equation of Alsina and García-Roig. (English summary) **99e:39084**
Larson, L. M. *see* **Cheng, Raymond; et al.**, **99h:39026**
Lyubich, Yu. I. *see* **Belitskiĭ, G. R.**, **99e:39081**
Matkowski, Janusz Continuous solutions of a functional equation. (English summary) **99c:39030**
McFadden, Robert B. *see* **Cheng, Raymond; et al.**, **99h:39026**
Midura, Stanisław On solutions of some system of functional equations. **99k:39065**
Milici, C. *see* **Neamţu, Nicolae N.; et al.**, **99j:39021**
Moro, Julio *see* **Berrone, Lucio R.**, **99d:39022**
Neamţu, Nicolae N. About Cauchy's functional equation $f(x+y) = f(x)f(y)$. (English summary) **99c:39031**
— About two functional equations. (English summary) **99j:39020**
— (*with* Milici, C.; Rachin, N.) About equivalence of Cauchy's functional equation $f(x+y) = f(x)f(y)$ with some other equations. (English summary) **99j:39021**
— About some classical functional equations. (English summary) **99d:39023**
Neuman, František Solutions of Abel's equation in relation to the asymptotic behaviour of linear differential equations. (English summary) **99a:39056**
Ng, Che Tat An application of a uniqueness theorem to a functional equation arising from measuring utility. (English summary) **99k:39066**
Powązka, Zbigniew Über Hosszúfunktionalungleichung und die Jensenische Integralungleichung. (English summary) [On Hosszú's functional inequality and Jensen's integral inequality] **99d:39024**
Rachin, N. *see* **Neamţu, Nicolae N.; et al.**, **99j:39021**
Reich, Ludwig *see* **Unger, Josef**, **99k:39068**
Riedel, Thomas (*with* Sahoo, Prasanna K.) On two functional equations connected with the characterizations of the distance measures. (English summary) **99g:39029**
— (*with* Sahoo, Prasanna K.) A functional equation characterizing low degree polynomials in two variables. **99b:39029**
— *see also* **Kannappan, Palaniappan; et al.**, **99g:39028**
Sablik, Maciej *see* **Ger, Joanna**, **99b:39026**
Sahoo, Prasanna K. *see* **Deeba, Elias Y.; et al.**, **99a:39054**; **Kannappan, Palaniappan**, **99b:39028**; **Riedel, Thomas**, **99b:39029**; **Deeba, Elias Y.; et al.**, **99g:39026**; **Kannappan, Palaniappan; et al.**, **99g:39028** *and* **Riedel, Thomas**, **99g:39029**
Sander, Wolfgang *see* **Járai, Antal**, **99c:39029**
Sándor, József On a functional equation. **99a:39057**
Smítal, Jaroslav *see* **Kahlig, Peter**, **99j:39019**
Takeuchi, Yu On an elementary functional equation. **99k:39067**
Tang, Yuan Sheng C^∞ even solutions of the Feigenbaum functional equation. (Chinese. English and Chinese summaries) **99a:39058**
Unger, Josef (*with* Reich, Ludwig) ★ Derivationen höherer Ordnung als Lösungen von Funktionalgleichungen. (German) [Derivations of higher order as solutions of functional equations] **99k:39068**
Xie, Shishen *see* **Deeba, Elias Y.; et al.**, **99a:39054** *and* **99g:39026**
Xu, Jian Hua² (*with* Zheng, Zu Xiu) Continuous solutions for a class of functional equations. (Chinese. English and Chinese summaries) **99k:39069**
Zannier, Umberto On a functional equation relating a Laurent series $f(x)$ to $f(x^m)$. (English summary) **99e:39085**
Zheng, Zu Xiu *see* **Xu, Jian Hua²**, **99k:39069**

Items with secondary classifications in 39B22

Akkouchi, Mohamed (*with* Bakali, Allal; Khalil, Idriss) A class of functional equations on a locally compact group. (English summary) **99k:43015**
Bakali, Allal *see* **Akkouchi, Mohamed; et al.**, **99k:43015**
Bartłomiejczyk, Lech Solutions with big graph of homogeneous functional equations in a single variable. (English summary) **99f:39032**
Berg, Lothar (*with* Krüppel, Manfred) Cantor sets and integral-functional equations. (English summary) **99m:45003**
Cabrelli, Carlos A. (*with* Molter, Ursula M.) Generalized self-similarity. (English summary) **99k:28011**
Chaljub-Simon, Alice (*with* Volkmann, Peter) Perturbations de fonctions additives. (English and French summaries) [Perturbations of additive functions] **99f:26007**
Chung, Soon-Yeong Functional means and harmonic functional means. (English summary) **99e:26022**
Cooper, Shaun A functional equation and Jacobian elliptic functions. (English summary) **99g:39030**
Derfel, Gregory (*with* Thuswaldner, Jörg Maximilian; Tichy, Robert F.; Vogl, Fritz) Asymptotic analysis of a class of functional equations. (English summary) **99c:39032**
Ebanks, Bruce R. Quasi-homogeneous associative functions. (English summary) **99f:39033**
Fan, Qinjie (*with* Li, Huiru; Zhai, Yanhui) Topological entropy for solutions of p-order Feigenbaum's functional equations. (English summary) **99f:39034**
Jabłoński, Wojciech On some subsemigroups of the group L_s^1. (English summary) **99e:39089**
Jung, Soon-Mo On the superstability of the functional equation $f(x^y) = yf(x)$. **99c:39041**
— On a general Hyers-Ulam stability of gamma functional equation. (English summary) **99e:39094**
Kahlig, Peter (*with* Matkowski, Janusz) On the composition of homogeneous quasi-arithmetic means. (English summary) **99b:26035**
Kannappan, Palaniappan (*with* Sahoo, Prasanna K.) Sum from distance measures between probability distributions and functional equations. (English summary) **99a:94011**
Khalil, Idriss *see* **Akkouchi, Mohamed; et al.**, **99k:43015**
Kocsis, I. (*with* Maksa, Gyula) The stability of a sum form functional equation arising in information theory. (English summary) **99e:94017**
Krüppel, Manfred *see* **Berg, Lothar**, **99m:45003**
Lau, Ka-Sing (*with* Ma, Mang-Fai) The regularity of L^p-scaling functions. (English summary) **99c:42065**
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Molter, Ursula M. *see* **Cabrelli, Carlos A.**, **99k:28011**
Monreal, Amadeo (*with* Tomás, Maria Santos) On some functional equations arising in computer graphics. (English summary) **99f:39031**
Morawiec, Janusz Some properties of probability distribution solutions of linear functional equations. (English summary) **99m:39021**
Sahoo, Prasanna K. *see* **Kannappan, Palaniappan**, **99a:94011**
Shen, Jianhong Refinement differential equations and wavelets. (English summary) **99k:34144**
Skof, Fulvia The general solution of the Cauchy equation on some restricted domains in $\mathbf{R}^2$ in terms of Hamel-bases without use of extensions. (English and Italian summaries) **99e:39079**

Szekeres, George Abel's equation and regular growth: variations on a theme by Abel. (English summary) **99m:26001**
Thuswaldner, Jörg Maximilian *see* **Derfel, Gregory; et al., 99c:39032**
Tichy, Robert F. *see* **Derfel, Gregory; et al., 99c:39032**
Tomás, Maria Santos *see* **Monreal, Amadeo, 99f:39031**
Vereshchagin, V. L. Asymptotic classification of solutions of the first discrete Painlevé equation. (Russian. Russian summary) **99i:39033**
Vogl, Fritz *see* **Derfel, Gregory; et al., 99c:39032**
Volkmann, Peter *see* **Chaljub-Simon, Alice, 99f:26007**
Wachnicki, Eugeniusz Sur un développement de la valeur moyenne. (French summary) [On a mean value expansion] **99b:26007**
Zhai, Yanhui *see* **Fan, Qinjie; et al., 99f:39034**

39B32 Equations for complex functions [see also 30D05]

An, Jong Soo A certain functional equation. (English summary) **99d:39025**
Braden, H. W. (*with* Bukhshtaber, V. M.) The general analytic solution of a functional equation of addition type. (English summary) **99h:39027**
Bukhshtaber, V. M. *see* **Braden, H. W., 99h:39027**
Cooper, Shaun A functional equation and Jacobian elliptic functions. (English summary) **99g:39030**
Derfel, Gregory (*with* Thuswaldner, Jörg Maximilian; Tichy, Robert F.; Vogl, Fritz) Asymptotic analysis of a class of functional equations. (English summary) **99c:39032**
Ishizaki, Katsuya Hypertranscendency of meromorphic solutions of a linear functional equation. (English summary) **99k:39070**
Lysenko, S. A. On the functional equation $f(p(z)) = g(q(z))$, where f and g are meromorphic functions, and p and q are polynomials. (Russian. English, Russian and Ukrainian summaries) **99c:39033**
Stetkær, Henrik Functional equations on abelian groups with involution. (English summary) **99d:39026**
— Functional equations on abelian groups with involution. II. (English summary) **99g:39031**
— Functional equations involving means of functions on the complex plane. (English summary) **99h:39028**
Thuswaldner, Jörg Maximilian *see* **Derfel, Gregory; et al., 99c:39032**
Tichy, Robert F. *see* **Derfel, Gregory; et al., 99c:39032**
Verde-Star, Luis An algebraic approach to convolutions and transform methods. (English summary) **99g:39032**
Vogl, Fritz *see* **Derfel, Gregory; et al., 99c:39032**

Items with secondary classifications in 39B32

Cheng, Raymond (*with* Dasgupta, Abhijit; Ebanks, Bruce R.; Kinch, L. F.; Larson, L. M.; McFadden, Robert B.) When does $f^{-1} = 1/f$? **99h:39026**
Dasgupta, Abhijit *see* **Cheng, Raymond; et al., 99h:39026**
Doebner, Heinz-Dietrich (*with* Nattermann, Peter) Partial differential equations and physical equivalence in linear and nonlinear quantum mechanics. (English summary) **99j:81048**
Drmota, Michael Systems of functional equations. (English summary) **99e:05011**
Ebanks, Bruce R. *see* **Cheng, Raymond; et al., 99h:39026**
van der Hoeven, Joris ★ Asymptotique automatique. (English and French summaries) [Automatic asymptotics] **99h:34078**
Kinch, L. F. *see* **Cheng, Raymond; et al., 99h:39026**
Larson, L. M. *see* **Cheng, Raymond; et al., 99h:39026**
McFadden, Robert B. *see* **Cheng, Raymond; et al., 99h:39026**
Mestel, B. D. (*with* Osbaldestin, Andrew H.) Feigenbaum theory for unimodal maps with asymmetric critical point: rigorous results. (English summary) **99i:58100**
Nattermann, Peter *see* **Doebner, Heinz-Dietrich, 99j:81048**
Ochiai, Hiroyuki Commuting differential operators of rank two. (English summary) **99d:35160**
Osbaldestin, Andrew H. *see* **Mestel, B. D., 99i:58100**
Rerikh, K. V. Nonalgebraic integrability of one reversible dynamical system of the Cremona type. (English summary) **99c:58134**
Sinopoulos, Pavlos Contribution to the study of two functional equations. (English summary) **99e:39093**

39B42 Matrix and operator equations

Lyalinov, M. A. Explicit solvability of a class of Maliuzhinets' equations with matrix coefficients. (English summary) **99b:39030**

Items with secondary classifications in 39B42

Bhattacharya, D. K. (*with* Manna, S.) Solution of operator equation and the space of entire Dirichlet series. (English summary) **99a:30003**
Boĭchuk, A. A. Boundary value problems for systems of difference equations. (Russian. English and Ukrainian summaries) **99b:39003**
Chen, Di-Rong On linear independence of integer translates of refinable vectors. (English summary) **99f:42063**
Dragović, Vladimir Note on L-A pair for the Kowalevskaya gyrostat in a magnetic field. **99d:70014**
Manna, S. *see* **Bhattacharya, D. K., 99a:30003**

39B52 Equations for functions with more general domains and/or ranges

Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, Maria Santos) Some remarkable lines of triangles in real normed spaces and characterizations of inner product structures. (English summary) **99b:39031**
Badora, Roman On the separation with n-additive functions. (English summary) **99b:39032**
Baron, Karol (*with* Kucia, Anna) On regularity of functions connected with orthogonal additivity. (English summary) **99m:39022**
— (*with* Volkmann, Peter) On orthogonally additive functions. (English summary) **99c:39034**
Benz, Walter The translation equation in geometry. **99j:39022**
Borelli Forti, Costanza On Hyers-Ulam stability for a class of functional equations. (English summary) **99d:39027**
Brzdęk, Janusz On orthogonally exponential functionals. (English summary) **99c:39035**
Chmieliński, Jacek On a conditional Wigner equation. (English summary) **99e:39086**
— (*with* Rätz, Jürg) Orthogonality equation almost everywhere. (English summary) **99e:39087**
Davison, Thomas M. K. A Cauchy-like functional equation. (English summary) **99e:39088**
— (*with* Ebanks, Bruce R.) The cocycle equation on periodic semigroups. (English summary) **99h:39029**
Ebanks, Bruce R. *see* **Davison, Thomas M. K., 99h:39029**
García-Roig, J.-L. (*with* Salillas, J.) On a conditional Cauchy functional equation involving powers of finite and number fields. (English summary) **99d:39028**
— (*with* Martín-Gutiérrez, Emma) On a conditional Cauchy functional equation involving cubes of finite fields. I. The case of characteristic $p \equiv 1 \pmod 3$. (English summary) **99f:39039**
Găvruţă, P. On the Hyers-Ulam-Rassias asymptotic stability of mappings. (English summary) **99c:39036**
Ger, Roman On an equation of ring homomorphisms. (English summary) **99g:39033**
Gilányi, Attila Solving linear functional equations with computer. (English summary) **99b:39033**
Guijarro Carranza, Piedad (*with* Tomás, Maria Santos) Perpendicular bisectors and orthogonality. (English summary) **99a:39059**
— *see also* **Alsina, Claudi; et al., 99b:39031**
Jabłoński, Wojciech On some subsemigroups of the group L_z^1. (English summary) **99e:39089**
Kannappan, Palaniappan *see* **Zhong, Ju Kang; et al., 99a:39063** *and* **99c:39038**
Kečkić, Jovan D. (*with* Prešić, Slaviša B.) Reproductivity—a general approach to equations. **99e:39090**
Kominek, Zygfryd Note on selection of Jensen set-valued functions. (English summary) **99j:39023**
Kucia, Anna *see* **Baron, Karol, 99m:39022**
Martín-Gutiérrez, Emma *see* **García-Roig, J.-L., 99f:39039**
Mukherjee, Samir Kumar On a functional equation in information theory. (English summary) **99a:39060**
Neamţu, Nicolae N. The stability of Cauchy's functional equation $f(x+y) = f(x)f(y)$. (English summary) **99e:39091**
— A qualitative study about Lobachevsky's functional equation of vectorial argument. (English summary) **99m:39023**
Prešić, Slaviša B. *see* **Kečkić, Jovan D., 99e:39090**
Rassias, Themistocles M. On a problem of S. M. Ulam and the asymptotic stability of the Cauchy functional equation with applications. (English summary) **99e:39092**
Rätz, Jürg *see* **Chmieliński, Jacek, 99e:39087**
Redheffer, Raymond M. (*with* Volkmann, Peter) Die Funktionalgleichung $f(x) + \max\{f(y), f(-y)\} = \max\{f(x+y), f(x-y)\}$. (English summary) [The functional equation $f(x) + \max\{f(y), f(-y)\} = \max\{f(x+y), f(x-y)\}$] **99m:39024**
Riedel, Thomas (*with* Sablik, Maciej) Characterizing polynomial functions by a mean value property. (English summary) **99k:39071**
Sablik, Maciej ★ Basic sets for functional equations. (French and Polish summaries) **99a:39061**
— *see also* **Riedel, Thomas, 99k:39071**
Sahoo, Prasanna K. *see* **Zhong, Ju Kang; et al., 99a:39063** *and* **99c:39038**
Sahu, Daya Ram *see* **Sharma, Birendra Kumar, 99c:39037**
Salillas, J. *see* **García-Roig, J.-L., 99d:39028**
Schwaiger, Jens The functional equation of homogeneity and its stability properties. **99j:39024**
Sharma, Birendra Kumar (*with* Sahu, Daya Ram) Hybrid D-compatibility for solution of functional equations. (English summary) **99c:39037**
Sinopoulos, Pavlos Contribution to the study of two functional equations. (English summary) **99e:39093**
Siudut, Stanisław Cauchy difference operator in $\mathcal{L}^p$-spaces. (English summary) **99d:39029**
Skof, Fulvia On some alternative quadratic equations in inner-product spaces. (Italian summary) **99k:39072**
Stetkær, Henrik Harmonic analysis and functional equations. **99d:39030**
— Trigonometric functional equations of rectangular type. (English summary) **99j:39025**
Tabor, Jacek Lipschitz stability of the Cauchy and Jensen equations. (English summary) **99b:39034**
Tabor, Józef A generalized notion of conjugate ideals and its applications. (English and Polish summaries) **99d:39031**
— Stability of the Cauchy type equations in $\mathcal{L}_p$ norms. (English summary) **99b:39035**
— Quasi-linear mappings. (English summary) **99a:39062**
Tomás, Maria Santos *see* **Guijarro Carranza, Piedad, 99a:39059** *and* **Alsina, Claudi; et al., 99b:39031**
Volkmann, Peter *see* **Baron, Karol, 99c:39034** *and* **Redheffer, Raymond M., 99m:39024**
Zhong, Ju Kang (*with* Kannappan, Palaniappan; Sahoo, Prasanna K.) On second differences in product form. (English summary) **99a:39063**
— (*with* Kannappan, Palaniappan; Sahoo, Prasanna K.) Corrigendum to: "On trigonometric functional equations of rectangular type" [Aequationes Math. **53** (1997), no. 1-2, 36–53; MR 98i:39009]. **99c:39038**

Items with secondary classifications in 39B52

Aczél, János (*with* Luce, R. Duncan; Maksa, Gyula) Solutions to three functional equations arising from different ways of measuring utility. (English summary) **99a:90049**
— (*with* Maksa, Gyula) Solution of the rectangular $m \times n$ generalized bisymmetry equation and of the problem of consistent aggregation. **99f:90022**

Alsina, Claudi On a generalized Lagrange's identity characterizing inner product spaces. (English summary) **99d:46031**
Bartłomiejczyk, Lech Solutions with big graph of homogeneous functional equations in a single variable. (English summary) **99f:39032**
Belitskiĭ, G. R. (*with* Lyubich, Yu. I.) On the normal solvability of cohomological equations on compact topological spaces. (English summary) **99h:58103**
Benz, Walter Translation equation and some new geometries. (English summary) **99d:51020**
Boros, Zoltán Regular functions that preserve digital representation. (English summary) **99h:39025**
Boutabaa, Abdelbaki Solutions entières p-adiques d'une certaine équation fonctionnelle. [p-adic integral solutions of a certain functional equation] **99a:11085**
Brodskiĭ, Ya. S. (*with* Slipenko, A. K.) Functional equations and groups: a formal introduction.
Cabello Sánchez, Félix Some remarks stemming from Ulam's problem about nearly additive mappings. (English summary) **99k:39073**
Candeal-Haro, Juan Carlos (*with* De Miguel, Juan Ramón; Induráin Eraso, Esteban; Olóriz Urriza, Esteban) Associativity equation revisited. (English summary) **99a:90019**
Czerwik, Stefan On the stability of the quadratic functional equation and related topics. (English summary) **99a:39064**
De Miguel, Juan Ramón *see* **Candeal-Haro, Juan Carlos; et al., 99a:90019**
Ebanks, Bruce R. Localizable composable measures of fuzziness. (English summary) **99c:04006**
García-Roig, J.-L. On the group of isometries and a system of functional equations of a real normed plane. **99e:46015**
Ger, Roman Delta-exponential mappings in Banach algebras. (English summary) **99c:39040**
Induráin Eraso, Esteban *see* **Candeal-Haro, Juan Carlos; et al., 99a:90019**
Járai, Antal A generalization of a theorem of Piccard. (English summary) **99e:54020**
Kannappan, Palaniappan On inner product spaces. IV. **99g:46018**
— On inner product spaces. III. (English summary) **99g:46017**
Koh, E. L. (*with* Ren, Gong) The Aczel-Chung equation in distributions. (English summary) **99i:46028**
Luce, R. Duncan *see* **Aczél, János; et al., 99a:90049**
Lyubich, Yu. I. *see* **Belitskiĭ, G. R., 99h:58103**
Magill, Kenneth D., Jr. Functional equations and topological N-groups. (English summary) **99b:16070**
Maksa, Gyula The solution of a system of functional equations related to selection probabilities. (English summary) **99j:39026**
— *see also* **Aczél, János; et al., 99a:90049** *and* **99f:90022**
Matkowski, Janusz Continuous solutions of a functional equation. (English summary) **99c:39030**
Moţ, Ghiocel Generalized convexity in metric spaces. (English and Romanian summaries) (*see* **99i:00014**)
Olóriz Urriza, Esteban *see* **Candeal-Haro, Juan Carlos; et al., 99a:90019**
Przeworska-Rolewicz, Danuta Power mappings in algebras with logarithms. (English summary) **99k:47005**
Rassias, John Michael Solution of the Ulam stability problem for Euler-Lagrange quadratic mappings. (English summary) **99e:39096**
Rassias, Themistocles M. Stability and set-valued functions. (English summary) **99m:28031**
Ren, Gong *see* **Koh, E. L., 99i:46028**
Riedel, Thomas (*with* Sahoo, Prasanna K.) On two functional equations connected with the characterizations of the distance measures. (English summary) **99g:39029**
Sahoo, Prasanna K. *see* **Riedel, Thomas, 99g:39029**
Skof, Fulvia The general solution of the Cauchy equation on some restricted domains in $\mathbf{R}^2$ in terms of Hamel-bases without use of extensions. (English and Italian summaries) **99e:39079**
Slipenko, A. K. *see* **Brodskiĭ, Ya. S.**
Smajdor, Andrzej Increasing iteration semigroups of Jensen set-valued functions. (English summary) **99g:39024**

39B62 Systems of functional equations

Dahmen, Wolfgang (*with* Micchelli, Charles A.) Biorthogonal wavelet expansions. (English summary) **99c:39039**
Hogan, Thomas A. A note on matrix refinement equations. (English summary) **99f:39040**
Kairies, Hans-Heinrich Functional equations for peculiar functions. **99d:39032**
Maksa, Gyula The solution of a system of functional equations related to selection probabilities. (English summary) **99j:39026**
Micchelli, Charles A. *see* **Dahmen, Wolfgang, 99c:39039**

Items with secondary classifications in 39B62

Cabrelli, Carlos A. (*with* Heil, Christopher; Molter, Ursula M.) Accuracy of lattice translates of several multidimensional refinable functions. (English summary) **99g:42038**
Ger, Roman On an equation of ring homomorphisms. (English summary) **99g:39033**
Heil, Christopher *see* **Cabrelli, Carlos A.; et al., 99g:42038**
Jiang, Qingtang On the regularity of matrix refinable functions. (English summary) **99d:42063**
Molter, Ursula M. *see* **Cabrelli, Carlos A.; et al., 99g:42038**
Rerikh, K. V. Nonalgebraic integrability of one reversible dynamical system of the Cremona type. (English summary) **99c:58134**
Xie, Shu Heng *see* **Zhao, Zeng Qin, 99c:47104**
Zhao, Zeng Qin (*with* Xie, Shu Heng) Boundary solutions of operator equations in partial ordering sets with applications to systems of functional equations. (English summary) **99c:47104**

39B72 Inequalities involving unknown functions [see also 26A51, 26Dxx]

Aseev, Vladislav V. (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti K.) Quasiadditive properties and bi-Lipschitz conditions. (English summary) **99f:39041**
Cabello Sánchez, Félix Some remarks stemming from Ulam's problem about nearly additive mappings. (English summary) **99k:39073**
Cădariu, L. *see* **Găvruţă, P., 99k:39074**
Czerwik, Stefan On the stability of the quadratic functional equation and related topics. (English summary) **99a:39064**
Găvruţă, P. (*with* Cădariu, L.) Inequalities for approximately additive mappings. (English summary) **99k:39074**
Ger, Roman Delta-exponential mappings in Banach algebras. (English summary) **99c:39040**
— (*with* Volkmann, Peter) On sums of linear and bounded mappings. (English summary) **99k:39075**
Jung, Soon-Mo On the superstability of the functional equation $f(x^y) = yf(x)$. **99c:39041**
— On a general Hyers-Ulam stability of gamma functional equation. (English summary) **99e:39094**
— On the superstability of some functional inequalities with the unbounded Cauchy difference $f(x+y) - f(x)f(y)$. (English summary) **99i:39038**
— On the Hyers-Ulam stability of the functional equations that have the quadratic property. (English summary) **99e:39095**
— On modified Hyers-Ulam-Rassias stability of a generalized Cauchy functional equation. (English summary) **99h:39030**
— Hyers-Ulam-Rassias stability of Jensen's equation and its application. (English summary) **99a:39065**
Nikodem, Kazimierz (*with* Páles, Zsolt) A characterization of midpoint-quasiaffine functions. (English summary) **99g:39034**
Páles, Zsolt Generalized stability of the Cauchy functional equation. (English summary) **99k:39076**
— *see also* **Nikodem, Kazimierz, 99g:39034**
Rassias, John Michael Solution of the Ulam stability problem for Euler-Lagrange quadratic mappings. (English summary) **99e:39096**
Rassias, Themistocles M. Stability of the generalized orthogonality functional equation. **99f:39042**
Tabor, Jacek (*with* Tabor, Józef) Stability of the Cauchy equation on an interval. (English summary) **99a:39066**
Tabor, Józef *see* **Tabor, Jacek, 99a:39066**
Vamanamurthy, Mavina K. *see* **Aseev, Vladislav V.; et al., 99f:39041**
Volkmann, Peter *see* **Ger, Roman, 99k:39075**
Vuorinen, Matti K. *see* **Aseev, Vladislav V.; et al., 99f:39041**

Items with secondary classifications in 39B72

Borelli Forti, Costanza On Hyers-Ulam stability for a class of functional equations. (English summary) **99d:39027**
Breckner, Wolfgang W. Continuity of generalized convex and generalized concave set-valued functions. **99c:47080**
Chen, Gouzhen *see* **Kang, Tai, 99j:03048**
Cheung, Wing-Sum (*with* Pečarić, Josip) Multi-dimensional integral inequalities of the Wirtinger-type. (English summary) **99k:26019**
— Discrete Poincaré-type inequalities. (English summary) **99j:39003**
Choczewski, Bogdan A special solution of the inhomogeneous Schröder equation. (English summary) **99i:39037**
Dappa, Eleonora A characterization of a generalized integral mean preserving convexity. **99e:26010**
Jung, Soon-Mo On solution and stability of functional equation $f(x+y)^2 = af(x)f(y) + bf(x)^2 + cf(y)^2$. (English summary) **99b:39027**
Kamaly, Amir (*with* Rakotondratsimba, Yves) Weighted inequalities for discrete and integral Hardy operators. (English summary) **99d:26022**
Kang, Tai (*with* Chen, Gouzhen) Modifications of Bellman-Giertz's theorem. (English summary) **99j:03048**
Pečarić, Josip *see* **Cheung, Wing-Sum, 99k:26019**
Rakotondratsimba, Yves *see* **Kamaly, Amir, 99d:26022**
Rassias, Themistocles M. Stability and set-valued functions. (English summary) **99m:28031**
Tabor, Jacek Lipschitz stability of the Cauchy and Jensen equations. (English summary) **99b:39034**

39B99 None of the above, but in this section

Baker, John A. Functional equations and Weierstrass transforms. II. (English summary) **99c:39042**

Items with secondary classifications in 39B99

Jia, Rong Qing Characterization of smoothness of multivariate refinable functions in Sobolev spaces. (English summary) **99m:42050**
Zabreĭko, Petr Petrovich K-metric and K-normed linear spaces: survey. (English summary) **99a:46010**

40–XX Sequences, series, summability

40–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 40–01

Scheid, Harald ★ Folgen und Funktionen. (German. German summary) [Sequences and functions] **99h:26001**

40–02 Research exposition (monographs, survey articles)

Ahmad, Z. U. Applications of summability. (English summary) **99e:40001**

40–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40–03

Elstrodt, Jürgen Annotationes historicae. (German) **99f:01011**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Abian, Alexander (*with* Kemp, Paula) Sums of infinitely many sequences.
Barkatou, Moulay A. (*with* Duval, Anne) Sur la somme de certaines séries de factorielles. (English and French summaries) [On the sum of certain factorial series] **99f:40001**
Dawson, Robert J. MacG. Formal summation of divergent series. (English summary) **99j:40001**
Demirci, K. A criterion for A-statistical convergence. (English summary) **99k:40001**
Durán, Ana Lía (*with* Estrada, Ricardo) An extension of the integral test. (English summary) **99i:40001**
Duval, Anne *see* **Barkatou, Moulay A., 99f:40001**
Estrada, Ricardo *see* **Durán, Ana Lía, 99i:40001**
Kemp, Paula *see* **Abian, Alexander**
Modan, Laurenţiu About the convergence of a recurrent sequence.
Móricz, Ferenc (*with* Rhoades, Billy E.) An equivalent reformulation of summability by weighted mean methods. (English summary) **99c:40001**
Rhoades, Billy E. *see* **Móricz, Ferenc, 99c:40001**
Slyusarchuk, V. E. Some conditions for the convergence of numerical series. (Ukrainian) (*see* **99a:00015**)
— A general theorem on the convergence of numerical series. (Russian) **99i:40002**
Tabirca, Sabin (*with* Tabirca, Tatiana) The convergence of Smarandache harmonic series. (English summary) **99h:40001**
Tabirca, Tatiana *see* **Tabirca, Sabin, 99h:40001**
Tripathy, Binod Chandra On statistical convergence. (English and Estonian summaries) **99j:40002**
Wang, Geping Infinite sum on the fuzzy real line. (English summary) **99g:40001**
Wang, Gui Jun The convergence of fuzzy complex valued series. (English summary) **99j:40003**

Items with secondary classifications in 40A05

Banaszczyk, M. (*with* Banaszczyk, Wojciech) The Dvoretzky-Hanani theorem for the group "$ax + b$". (English summary) **99c:22005**
Banaszczyk, Wojciech *see* **Banaszczyk, M., 99c:22005**
García, Antonio G. (*with* Moro, Julio; Hernández-Medina, Miguel Ángel) On the distributional Fourier duality and its applications. (English summary) **99m:46103**
Grosse-Erdmann, Karl-Goswin ★ The blocking technique, weighted mean operators and Hardy's inequality. **99d:26024**
Hernández-Medina, Miguel Ángel *see* **García, Antonio G.; et al., 99m:46103**
Lavrič, Boris Order convergence of order bounded sequences in Riesz spaces. (English summary) **99d:46004**
Linchuk, S. S. On the rate of convergence of recurrent sequences. (Russian) **99k:26014**
Mazhar, S. M. A note on a theorem of Mercer. (English summary) (*see* **99d:00019**)
— (*with* Móricz, Ferenc) Integrability of double power series with nonnegative coefficients. (English summary) **99e:41022**
Móricz, Ferenc *see* **Mazhar, S. M., 99e:41022**
Moro, Julio *see* **García, Antonio G.; et al., 99m:46103**
Nishiwada, Kimimasa Algorithm of the arithmetic-geometric mean and its complex limits. (English summary) **99c:11065**
Nuray, Fatih Lacunary statistical convergence of sequences of fuzzy numbers. (English summary) **99e:04003**
Orhan, C. Translativity of absolute weighted mean summability. (English summary) **99m:40009**
Rusinek, Jan p-analytic and p-quasi-analytic vectors. (English summary) **99a:47034**
Smailov, E. S. On the absolute convergence of multiple series consisting of Fourier-Price coefficients. (Russian. English, Russian and Kazakh summaries) **99g:42037**

40A10 Convergence and divergence of integrals

Móricz, Ferenc Summability $(C, 1)$ of integrals on $\mathbf{R}_+$. (English summary) **99j:40004**

Items with secondary classifications in 40A10

Durán, Ana Lía (*with* Estrada, Ricardo) An extension of the integral test. (English summary) **99i:40001**
Estrada, Ricardo *see* **Durán, Ana Lía, 99i:40001**
González Vieli, Francisco Javier Pointwise Fourier inversion with Cesàro means. (English summary) **99m:42019**
Grosse-Erdmann, Karl-Goswin ★ The blocking technique, weighted mean operators and Hardy's inequality. **99d:26024**
Liu, Wen[1] A class of strong deviation theorems and Laplace transform methods. (Chinese. Chinese summary)
Slyusarchuk, V. E. New conditions for the convergence of improper integrals and numerical series. (Ukrainian) **99d:65077**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Antonova, T. M. On the convergence of periodic integral continued fractions with variable limits of integration. (English summary) **99g:40002**
Bodnar, D. I. (*with* Kuchminskaya, Kh. I.) Branched continued fractions (30th anniversary of the first publication). (English summary) **99e:40002**
— Multidimensional C-fractions. (English summary) **99h:40002**
Cochran, Lyle Proving convergence results for periodic continued fractions using linear algebra. **99a:40001**
Dmitrishin, R. I. Multidimensional chain sequences and g-fractions. (English summary) **99h:40003**
Drahovský, Štefan (*with* Šalát, Tibor) On functions that preserve convergence of continued fractions. (English summary) **99a:40002**
Kuchminskaya, Kh. I. The element sets and value sets of two-dimensional continued fractions. (English summary) **99e:40003**
— *see also* **Bodnar, D. I., 99e:40002**
Malachkovs'kii, G. G. Some twin regions of convergence for branched continued fractions. (English summary) **99e:40004**
Šalát, Tibor *see* **Drahovský, Štefan, 99a:40002**
Syavavko, M. S. Transformation of integral power series into corresponding continued fractions. (English summary) **99k:40002**

Items with secondary classifications in 40A15

Adler, Irving The role of continued fractions in phyllotaxis. **99g:92012**
Antonova, T. M. On the convergence and approximation error of branched continued fractions with complex components. (Ukrainian. English summary)
Barrios, Dolores (*with* López Lagomasino, G.; Martínez-Finkelshtein, Andrei; Torrano Giménez, E.) On the domain of convergence and poles of complex J-fractions. (English summary) **99b:30003**
Cooper, S. Clement (*with* Gustafson, Philip E.) The strong Chebyshev distribution and orthogonal Laurent polynomials. (English summary) **99c:42043**
Dahlquist, Germund On summation formulas due to Plana, Lindelöf and Abel, and related Gauss-Christoffel rules. I. (English summary) **99a:65010**
Gupta, Dharma P. (*with* Masson, David R.) Contiguous relations, continued fractions and orthogonality. (English summary) **99c:33028**
Gustafson, Philip E. *see* **Cooper, S. Clement, 99c:42043**
Jones, William B. (*with* Van Assche, Walter) Asymptotic behavior of the continued fraction coefficients of a class of Stieltjes transforms including the Binet function. **99m:30006**
Kachmar, V. S. (*with* Rusyn, B. P.; Shmoĭlov, V. I.) Algorithms for computing the values of continued fractions. (Russian. Russian summary) **99m:65026**
Lenin, R. B. *see* **Parthasarathy, P. R.; et al., 99g:60156**
López Lagomasino, G. *see* **Barrios, Dolores; et al., 99b:30003**
Manzii, O. S. On the approximation of an Appell hypergeometric function by a branched continued fraction. (English summary) **99f:33016**
Martínez-Finkelshtein, Andrei *see* **Barrios, Dolores; et al., 99b:30003**
Masson, David R. *see* **Gupta, Dharma P., 99c:33028**
Molnar, N. P. Approximation of the Lauricella hypergeometric functions $F_D^{(N)}$ by branched continued fractions. (English summary) **99f:33017**
Parthasarathy, P. R. (*with* Lenin, R. B.; Schoutens, Wim; Van Assche, Walter) A birth and death process related to the Rogers–Ramanujan continued fraction. (English summary) **99g:60156**
Pasichnik, T. V. *see* **Syavavko, M. S., 99b:47019**
Rusyn, B. P. *see* **Kachmar, V. S.; et al., 99m:65026**
Schoutens, Wim *see* **Parthasarathy, P. R.; et al., 99g:60156**
Shmoĭlov, V. I. *see* **Kachmar, V. S.; et al., 99m:65026**
Syavavko, M. S. (*with* Pasichnik, T. V.) The transformation of parameter formal decomposition for solutions of linear differential equations in convergence continued Ritz-fractions. **99b:47019**
Torrano Giménez, E. *see* **Barrios, Dolores; et al., 99b:30003**
Van Assche, Walter Compact Jacobi matrices: from Stieltjes to Krein and $M(a, b)$. **99b:42031**
— *see also* **Parthasarathy, P. R.; et al., 99g:60156** *and* **Jones, William B., 99m:30006**
Waadeland, Haakon Frequency analysis and continued fractions. (English summary) **99e:94014**

40A20 Convergence and divergence of infinite products

Kumari, Arti On convergence of infinite products.
Trench, William F. Invertibly convergent infinite products of matrices. (English summary) **99m:40001**

Items with secondary classifications in 40A20

Rusinek, Jan p-analytic and p-quasi-analytic vectors. (English summary) **99a:47034**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Leindler, László Inequalities for Dirichlet series with positive coefficients and related integrals. (English and Russian summaries) **99m:40002**
Salinas de Romero, Susana (*with* Srivastava, Hari M.) Some applications of fractional calculus involving summation of infinite series. (English summary) **99c:40002**
Srivastava, Hari M. *see* **Salinas de Romero, Susana, 99c:40002**
Yang, Bi Cheng *see* **Zhu, Yun Hua, 99i:40003**
Zhu, Yun Hua (*with* Yang, Bi Cheng) An improvement of Euler's summation formula and some inequalities for sums of powers. (Chinese. English and Chinese summaries) **99i:40003**

Items with secondary classifications in 40A25

Butzer, Paul Leo (*with* Jansche, Stefan) The finite Mellin transform, Mellin-Fourier series, and the Mellin-Poisson summation formula. (English summary) **99j:44009**
Choi, Junesang (*with* Srivastava, Hari M.; Zhang, Nan-Yue) Integrals involving a function associated with the Euler-Maclaurin summation formula. (English summary) **99h:33004**
Dahlquist, Germund On summation formulas due to Plana, Lindelöf and Abel, and related Gauss-Christoffel rules. II. (English summary) **99k:65007**
Jansche, Stefan *see* **Butzer, Paul Leo, 99j:44009**
Srivastava, Hari M. *see* **Choi, Junesang; et al., 99h:33004**
Trigub, R. M. A generalization of the Euler-Maclaurin formula. (Russian) **99d:42006**
Yavryan, A. V. On the rate of summation of power series outside the convergence circle. (Russian) **99j:30002**
Zhang, Nan-Yue *see* **Choi, Junesang; et al., 99h:33004**

40A30 Convergence and divergence of series and sequences of functions

Antosik, Piotr A lemma on matrices and examples of its applications. (English summary) **99e:40005**
Dhondt, Guido On the summation of a particular non-uniformly-convergent series. (English summary) **99c:40003**
Ogreid, Odd Magne (*with* Osland, Per) Summing one- and two-dimensional series related to the Euler series. (English summary) **99m:40003**
Osland, Per *see* **Ogreid, Odd Magne, 99m:40003**

Items with secondary classifications in 40A30

Leindler, László On equivalence of coefficient conditions with assumptions of monotonicity. (English summary) **99i:40004**

40A99 None of the above, but in this section

Items with secondary classifications in 40A99

Cochran, Lyle (*with* Cooper, S. Clement) Symmetric orthogonal Laurent polynomials. **99m:33013**
Cooper, S. Clement *see* **Cochran, Lyle, 99m:33013**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Leindler, László On equivalence of coefficient conditions with assumptions of monotonicity. (English summary) **99i:40004**
Mirza, M. Y. (*with* Thorpe, B.) Tauberian constants for double series. **99k:40003**
Rhoades, Billy E. Absolute comparison theorems for double weighted mean and double Cesàro means. (English summary) **99i:40005**
Thorpe, B. *see* **Mirza, M. Y., 99k:40003**

Items with secondary classifications in 40B05

Baron, S. (*with* Tietz, Hubert) Produktsätze für Verfahren zur Limitierung von Doppelfolgen. II. (German and Russian summaries) [Product theorems for summability methods of double sequences. II] **99j:40008**
Greif, Chen (*with* Levin, David) The d_2-transformation for infinite double series and the D_2-transformation for infinite double integrals. (English summary) **99m:65256**
Levin, David *see* **Greif, Chen, 99m:65256**
Mirza, M. Y. (*with* Thorpe, B.) Some new o-Tauberian theorems for double series. (English summary) **99d:40002**
Móricz, Ferenc (*with* Németh, Zoltán[1]) A new characterization of regular summability $(C, 1, 1)$ of double series. (English summary) **99d:40004**
Németh, Zoltán[1] *see* **Móricz, Ferenc, 99d:40004**
Thorpe, B. *see* **Mirza, M. Y., 99d:40002**
Tietz, Hubert *see* **Baron, S., 99j:40008**

40Cxx General summability methods

40C05 Matrix methods

Ahmad, Z. U. *see* **Jalal, H. T., 99f:40002**
Aiyub, M. *see* **Khan, F. M.; et al., 99h:40005**
Ansari, Amir Ali *see* **Mishra, Babban Prasad, 99f:40003**
Boos, J. (*with* Leiger, T.; Zeller, Karl) Consistency theory for SM-methods. **99i:40006**
Bruĭ, I. N. Trigonometric series of the classes $L^p(\mathbf{T})$, $p \in]1; \infty[$, and their conservative means. (Russian. Russian summary) **99j:40005**
DeFranza, J. (*with* Fleming, D. J.; Rhoades, Billy E.) On the absolute Hardy-Bohr criteria. (English summary) **99m:40004**
Fleming, D. J. *see* **DeFranza, J.; et al., 99m:40004**
Gaur, A. K. Difference sequence spaces defined by a sequence of moduli. (English summary) **99j:40006**
Jalal, H. T. (*with* Ahmad, Z. U.) Invariant means and some matrix transformations. (English summary) **99f:40002**
Khan, F. M. (*with* Khan, Mushir A.) Matrix transformation of $w(p)$ and $\mathrm{ces}(p)$ into χ. (English summary) **99h:40004**
— (*with* Khan, Mushir A.; Aiyub, M.) Matrix transformations and almost boundedness. (English summary) **99h:40005**
Khan, Mushir A. *see* **Khan, F. M., 99h:40004** *and* **99h:40005**
Leiger, T. *see* **Boos, J.; et al., 99i:40006**
Lemma, Mulatu Logarithmic transformations into l^1. (English summary) **99k:40004**
Li, Rong Lu *see* **Wu, Jun De; et al., 99i:40007**
Luh, Wolfgang Intersections with Gronwall methods. (English summary) **99j:40007**
Malkowsky, E. A survey of recent results concerning a general class of sequence spaces and matrix transformations. (English summary) **99d:40001**
Mishra, Babban Prasad (*with* Ansari, Amir Ali) On sequence spaces of scalars. (English summary) **99f:40003**
Nuray, Fatih θ-almost summable sequences. (English summary) **99c:40004**
Qu, Wen Bo *see* **Wu, Jun De; et al., 99i:40007**
Rhoades, Billy E. *see* **DeFranza, J.; et al., 99m:40004**
Selvaraj, Chikkanna (*with* Selvaraj, Suguna) Matrix transformations based on Dirichlet convolution. (English summary) **99c:40005**
Selvaraj, Suguna *see* **Selvaraj, Chikkanna, 99c:40005**
Tietz, Hubert (*with* Zeller, Karl) Tauber-Bedingungen für Verfahren mit Abschnittskonvergenz. (English summary) [Tauberian conditions for methods with sectional convergence] **99m:40005**
Tripathy, Binod Chandra Matrix maps on the power-series convergent on the unit disc. (English summary) **99m:40006**
Wu, Jun De (*with* Li, Rong Lu; Qu, Wen Bo) An infinite matrix convergence theorem and its applications. (Chinese. English and Chinese summaries) **99i:40007**
Zeller, Karl *see* **Boos, J.; et al., 99i:40006** *and* **Tietz, Hubert, 99m:40005**

Items with secondary classifications in 40C05

Aiyub, M. *see* **Khan, Mushir A., 99j:40017**
Asma, Çiğdem (*with* Et, Mikail) On v-invariant sequence spaces. (English summary) **99m:40014**
Borwein, David Simple conditions for matrices to be bounded operators on l_p. (English summary) **99b:47037**
Das, Gokulananda (*with* Ojha, Akshay Kumar; Ray, Braja Kishore) Degree of approximation of functions associated with Hardy-Littlewood series in the generalized Hölder metric. (English summary) **99h:42009**
Demirci, K. A criterion for A-statistical convergence. (English summary) **99k:40001**
Esi, Ayhan (*with* Et, Mikail) Statistical semiperiodic sequence spaces and $[f]$-lacunary statistically convergence. (English summary) **99j:40015**
Et, Mikail *see* **Esi, Ayhan, 99j:40015** *and* **Asma, Çiğdem, 99m:40014**
Jakimovski, Amnon (*with* Stadtmüller, Karin) On matrix transforms of power series with Ostrowski gaps. (English summary) **99f:30004**
Just, Winfried (*with* Vojtáš, Peter) On matrix rapid filters. (English summary) **99a:04005**
Khan, Mushir A. (*with* Aiyub, M.) A class of matrix transformations. (English summary) **99j:40017**
Kwee, B. On Mercerian sets for $(\overline{N}, p_n)$ means. **99e:40006**
Mittal, Madan Lal A sufficient condition for (F_1)-effectiveness of the C^1T-method. (English summary) **99f:42012**
Ojha, Akshay Kumar *see* **Das, Gokulananda; et al., 99h:42009**
Parameswaran, Mangalam R. Two characterizations of coercive Hausdorff matrices. (English summary) **99f:40008**
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 99h:42009**
Stadtmüller, Karin *see* **Jakimovski, Amnon, 99f:30004**
Vojtáš, Peter *see* **Just, Winfried, 99a:04005**

40C10 Integral methods

Mishra, Babban Prasad On product summability methods of functions. **99f:40004**
— (*with* Singh, Dinesh[2]) Translativity of (A_λ) methods of functions. **99f:40005**
Singh, Dinesh[2] *see* **Mishra, Babban Prasad, 99f:40005**

Items with secondary classifications in 40C10

López García, José Luis Several series containing gamma and polygamma functions. (English summary) **99h:33005**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Baron, S. (*with* Tietz, Hubert) Produktsätze für Verfahren zur Limitierung von Doppelfolgen. II. (German and Russian summaries) [Product theorems for summability methods of double sequences. II] **99j:40008**
Tietz, Hubert *see* **Baron, S., 99j:40008**

40Dxx Direct theorems on summability

40D05 General theorems

Items with secondary classifications in 40D05

Esi, Ayhan (*with* Et, Mikail) Statistical semiperiodic sequence spaces and $[f]$-lacunary statistically convergence. (English summary) **99j:40015**

Et, Mikail *see* **Esi, Ayhan, 99j:40015**

40D09 Structure of summability fields

Items with secondary classifications in 40D09

Chandrasekhara Rao, K. Extreme points. (English summary) **99e:40007**

40D15 Convergence factors and summability factors

Bor, Hüseyin On absolute Cesàro summability factors of infinite series and Fourier series. (English summary) **99i:40008**

Kantawala, P. S. On approximation of Nörlund mean of general orthogonal series. **99b:40001**

Items with secondary classifications in 40D15

Mazhar, S. M. A note on absolute summability factors. (English summary) **99a:40005**

Seyhan, Hikmet A note on absolute summability factors. (English summary) **99a:40006**

40D20 Summability and bounded fields of methods

Li, Jinlu Asymptotic equivalence of sequences and summability. (English summary) **99c:40006**

Items with secondary classifications in 40D20

Parameswaran, Mangalam R. Two characterizations of coercive Hausdorff matrices. (English summary) **99f:40008**

40D25 Inclusion and equivalence theorems

Watson, Bruce B. Discrete power series methods. (English summary) **99i:40009**

Items with secondary classifications in 40D25

Ansari, Amir Ali *see* **Mishra, Babban Prasad, 99f:40003**

Khatib, M. A. *see* **Mursaleen; et al., 99g:40004**

Mazhar, S. M. A note on absolute summability factors. (English summary) **99a:40005**

Mishra, Babban Prasad (*with* Ansari, Amir Ali) On sequence spaces of scalars. (English summary) **99f:40003**

— On product summability methods of functions. **99f:40004**

Mursaleen (*with* Khatib, M. A.; Qamaruddin) On difference Cesàro sequence spaces of non-absolute type. (English summary) **99g:40004**

Natarajan, P. N. (*with* Srinivasan, Vaithinathsamy) Convolution of Nörlund methods in non-Archimedean fields. (English summary) **99f:40007**

Qamaruddin *see* **Mursaleen; et al., 99g:40004**

Rhoades, Billy E. Absolute comparison theorems for double weighted mean and double Cesàro means. (English summary) **99i:40005**

Srinivasan, Vaithinathsamy *see* **Natarajan, P. N., 99f:40007**

Sulaiman, W. T. Generalization concerning inclusion theorems for absolute harmonic-Cesàro method of summation. (English summary) **99m:40011**

Waszak, Aleksander (*with* Żurakowski, Dariusz) Musielak-Orlicz spaces of sequences connected with strong summability. (English summary) **99m:40012**

Żurakowski, Dariusz *see* **Waszak, Aleksander, 99m:40012**

40D99 None of the above, but in this section

Items with secondary classifications in 40D99

Mishra, Babban Prasad (*with* Singh, Dinesh[2]) Translativity of (A_λ) methods of functions. **99f:40005**

Singh, Dinesh[2] *see* **Mishra, Babban Prasad, 99f:40005**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Borwein, David (*with* Kratz, Werner) A high indices Tauberian theorem. (English summary) **99j:40009**

Das, Gokulananda (*with* Ray, Braja Kishore) Abelian and Tauberian theorems for a new trigonometric method of summation. (English summary) **99f:40006**

Drozhzhinov, Yu. N. *see* **Zav′yalov, B. I.**

Fridy, John A. (*with* Khan, Mohammad K.) Tauberian theorems via statistical convergence. (English summary) **99m:40007**

Inoue, Akihiko Abel-Tauber theorems for Fourier-Stieltjes coefficients. (English summary) **99a:40003**

Khan, Mohammad K. *see* **Fridy, John A., 99m:40007**

Kratz, Werner *see* **Borwein, David, 99j:40009**

Krishnan, V. K. A gap Tauberian theorem connecting Borel and Cesàro summabilities. (English summary) **99m:40008**

Kwee, B. On Mercerian sets for $(\overline{N}, p_n)$ means. **99e:40006**

Mirza, M. Y. (*with* Thorpe, B.) Some new o-Tauberian theorems for double series. (English summary) **99d:40002**

Rangachari, M. S. Remarks on gap Tauberian theorems. **99a:40004**

Ray, Braja Kishore *see* **Das, Gokulananda, 99f:40006**

Stepanyants, S. A. Tauberian-type theorems and gap conditions for Cesàro and Riesz summability methods. (Russian. Russian summary)

Thorpe, B. *see* **Mirza, M. Y., 99d:40002**

Tietz, Hubert (*with* Zeller, Karl) An elementary proof for the O_R-theorem of Hardy and Littlewood. (English summary) **99c:40007**

Zav′yalov, B. I. (*with* Drozhzhinov, Yu. N.) On a real Tauberian theorem. (Russian)

Zeller, Karl *see* **Tietz, Hubert, 99c:40007**

Items with secondary classifications in 40E05

Bingham, N. H. (*with* Inoue, Akihiko) An Abel-Tauber theorem for Hankel transforms. (English summary) **99j:44008**

Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) Local Tauberian theorems in spaces of generalized functions associated with cones, and their applications. (Russian. Russian summary) **99a:46075**

Inoue, Akihiko *see* **Bingham, N. H., 99j:44008**

Jelínek, J. A Tauberian theorem for distributions. (English summary) (*see* **99i:00031**)

Tietz, Hubert (*with* Zeller, Karl) Tauber-Bedingungen für Verfahren mit Abschnittskonvergenz. (English summary) [Tauberian conditions for methods with sectional convergence] **99m:40005**

Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 99a:46075**

Zeller, Karl *see* **Tietz, Hubert, 99m:40005**

40E20 Tauberian constants

Items with secondary classifications in 40E20

Mirza, M. Y. (*with* Thorpe, B.) Tauberian constants for double series. **99k:40003**

Thorpe, B. *see* **Mirza, M. Y., 99k:40003**

40F05 Absolute and strong summability

Lal, Shyam A theorem on absolute summability methods. (English summary) **99h:40006**

Leindler, László New effects of an old Z. Zalcwasser's theorem. (English summary) **99k:40005**

— On the strong summability of orthogonal series. (English summary) **99k:40006**

— On equivalence of coefficient conditions and application. (English summary) **99b:40002**

Li, Zhongkai Absolute Cesàro summability of some series related to orthogonal polynomial expansions. (English summary) **99b:40003**

Malkowsky, E. On a new class of sequence spaces related to absolute and strong summability. (English summary) **99d:40003**

Mazhar, S. M. A note on absolute summability factors. (English summary) **99a:40005**

Natarajan, P. N. A generalization of Cauchy's theorem on multiplication of absolutely convergent series. (English summary) **99h:40007**

Orhan, C. Translativity of absolute weighted mean summability. (English summary) **99m:40009**

Seyhan, Hikmet A note on absolute summability factors. (English summary) **99a:40006**

— (*with* Sönmez, Abdulcabbar) On φ-$|\overline{N}, p_n; \delta|_k$ summability factors. (English summary) **99c:40008**

— A note on absolute summability factors. (English summary) **99k:40007**

— A note on relative strength of two absolute summability methods. (English summary) **99j:40010**

— Absolute summability factors of type (A, B). (English summary) **99m:40010**

— (*with* Sönmez, Abdulcabbar) Corrigendum to: "On φ-$|\overline{N}, p_n; \delta|_k$ summability factors" [Portugal Math. **54** (1997), no. 4, 393–398; MR 99c:40008]. **Slyusarchuk, V. E.** A property of absolutely converging numerical series. (Russian) **99h:40008**

Sönmez, Abdulcabbar *see* **Seyhan, Hikmet, 99c:40008**

Sulaiman, W. T. A general theorem concerning some absolute summability methods. (English summary) **99i:40010**

— Generalization concerning inclusion theorems for absolute harmonic-Cesàro method of summation. (English summary) **99m:40011**

— On a new absolute summability method. (English summary) **99h:40009**

— Characterization on the relative strength of two absolute summability methods. (English summary) **99j:40011**

Verma, Alok On absolute Cesàro summability of Laplace series. (English summary) **99k:40008a**

— On absolute Cesàro summability of Laplace series. (English summary) **99k:40008b**

Waszak, Aleksander (*with* Żurakowski, Dariusz) Musielak-Orlicz spaces of sequences connected with strong summability. (English summary) **99m:40012**

Żurakowski, Dariusz *see* **Waszak, Aleksander, 99m:40012**

Items with secondary classifications in 40F05

Bor, Hüseyin On absolute Cesàro summability factors of infinite series and Fourier series. (English summary) **99i:40008**

Leindler, László Embedding results pertaining to strong approximation of Fourier series. I. (Russian summary) **99d:42001**

— On the very strong summability of orthogonal series. (English summary) **99i:42048**

Malkowsky, E. A survey of recent results concerning a general class of sequence spaces and matrix transformations. (English summary) **99d:40001**

Patel, N. V. *see* **Tripathi, Sanjay, 99c:40010**

Rhoades, Billy E. Absolute comparison theorems for double weighted mean and double Cesàro means. (English summary) **99i:40005**

Sahoo, A. K. Absolute N_{q_n}-summability of the series conjugate to a Fourier series. (English summary) **99k:42009**

Schipp, Ferenc On the strong summability of Walsh series. (English summary) **99g:42035**

Tripathi, Sanjay (*with* Patel, N. V.) On absolute Cesàro summability of infinite series. **99c:40010**

Weisz, Ferenc Strong summability of two-dimensional trigonometric-Fourier series. (English summary) **99c:42016**

Ziza, O. A. On absolute summability of orthogonal series by the generalized method of the summatorial function. (English summary) **99k:42075**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Bor, Hüseyin On the generalized Cesàro summability factors. (English summary) **99j:40012**
Chandrasekhara Rao, K. Extreme points. (English summary) **99e:40007**
Esi, Ayhan The A-statistical and strongly $(A\text{-}p)$-Cesaro convergence of sequences. (English summary) **99h:40010**
Katsoprinakis, E. S. (*with* Papadimitrakis, M.) Extensions of a theorem of Marcinkiewicz-Zygmund and of Rogosinski's formula and an application to universal Taylor series. (English summary) **99j:40013**
Li, Zhongkai Absolute Cesàro summability of orthogonal polynomial series. **99c:40009**
Mandal, S. Abelian theorems on abscissa of summability of a generalized Laplace Stieltjes integral. (English summary) **99g:40003**
Móricz, Ferenc (*with* Németh, Zoltán[1]) A new characterization of regular summability $(C, 1, 1)$ of double series. (English summary) **99d:40004**
Natarajan, P. N. (*with* Srinivasan, Vaithinathsamy) Convolution of Nörlund methods in non-Archimedean fields. (English summary) **99f:40007**
Németh, Zoltán[1] *see* **Móricz, Ferenc, 99d:40004**
Papadimitrakis, M. *see* **Katsoprinakis, E. S., 99j:40013**
Parameswaran, Mangalam R. Two characterizations of coercive Hausdorff matrices. (English summary) **99f:40008**
Patel, N. V. *see* **Tripathi, Sanjay, 99c:40010**
Poluyanova, M. F. On some generalizations of a theorem of Hardy and Littlewood. (Russian)
Seyhan, Hikmet On the local property of φ-$|\overline{N}, p_n; \delta|_k$ summability of factored Fourier series. (English summary) **99m:40013**
Sönmez, Abdulcabbar On absolute Nörlund summability of orthogonal series. (English summary) **99j:40014**
Srinivasan, Vaithinathsamy *see* **Natarajan, P. N., 99f:40007**
Tripathi, Sanjay (*with* Patel, N. V.) On absolute Cesàro summability of infinite series. **99c:40010**

Items with secondary classifications in 40G05

Bor, Hüseyin On absolute Cesàro summability factors of infinite series and Fourier series. (English summary) **99i:40008**
Das, Gokulananda (*with* Ray, Braja Kishore) Abelian and Tauberian theorems for a new trigonometric method of summation. (English summary) **99f:40006**
Dikshit, G. D. Absolute Euler summability of Fourier series. (English summary) **99d:42010**
Fridy, John A. (*with* Khan, Mohammad K.) Tauberian theorems via statistical convergence. (English summary) **99m:40007**
Gát, Gy. On $(C, 1)$ summability of integrable functions with respect to the Walsh-Kaczmarz system. (English summary) **99e:42043**
Gawronski, Wolfgang (*with* Gröling, Alexander) Oscillating asymptotics for $\sum_0^\infty \log^k(n+1)z^n$. (English summary) **99a:30037**
González Vieli, Francisco Javier Pointwise Fourier inversion with Cesàro means. (English summary) **99m:42019**
Gröling, Alexander *see* **Gawronski, Wolfgang, 99a:30037**
Jakimovski, Amnon (*with* Stadtmüller, Karin) On matrix transforms of power series with Ostrowski gaps. (English summary) **99f:30004**
Kantawala, P. S. On approximation of Nörlund mean of general orthogonal series. **99b:40001**
Kaushik, Pushpa *see* **Verma, Alok; et al., 99h:33051**
Khan, Mohammad K. *see* **Fridy, John A., 99m:40007**
Krishnan, V. K. A gap Tauberian theorem connecting Borel and Cesàro summabilities. (English summary) **99m:40008**
Lanzinger, Hartmut An almost sure limit theorem for moving averages of random variables between the strong law of large numbers and the Erdős-Rényi law. (English summary) **99i:60071**
Łenski, Włodzimierz (*with* Topolewska, Maria) On the rate of strong summability of double Fourier series. (English summary) **99m:42017**
Li, Zhongkai Absolute Cesàro summability of some series related to orthogonal polynomial expansions. (English summary) **99b:40003**
Mirza, M. Y. (*with* Thorpe, B.) Some new o-Tauberian theorems for double series. (English summary) **99d:40002**
Mishra, Babban Prasad On product summability methods of functions. **99f:40004**
Mittal, Madan Lal A sufficient condition for (F_1)-effectiveness of the C^1T-method. (English summary) **99f:42012**
Miyamoto, Ikuko *see* **Okuyama, Yasuo, 99k:42008**
Móricz, Ferenc Summability $(C, 1)$ of integrals on $\mathbf{R}_+$. (English summary) **99j:40004**
— (*with* Rhoades, Billy E.) An equivalent reformulation of summability by weighted mean methods. (English summary) **99c:40001**
Okuyama, Yasuo (*with* Miyamoto, Ikuko) On the generalized Nörlund summability of Fourier series and its conjugate series. (English summary) **99k:42008**
Orhan, C. Translativity of absolute weighted mean summability. (English summary) **99m:40009**
Ray, Braja Kishore *see* **Das, Gokulananda, 99f:40006**
Rhoades, Billy E. *see* **Móricz, Ferenc, 99c:40001**
Roszak, B. On the pointwise approximation by Borel and Euler means. (English summary) **99c:42001**
Sahoo, A. K. Absolute N_{q_n}-summability of the series conjugate to a Fourier series. (English summary) **99k:42009**
Schipp, Ferenc On the strong summability of Walsh series. (English summary) **99g:42035**
Seyhan, Hikmet (*with* Sönmez, Abdulcabbar) On φ-$|\overline{N}, p_n; \delta|_k$ summability factors. (English summary) **99c:40008**
— A note on absolute summability factors. (English summary) **99k:40007**
— Absolute summability factors of type (A, B). (English summary) **99m:40010**
— (*with* Sönmez, Abdulcabbar) Corrigendum to: "On φ-$|\overline{N}, p_n; \delta|_k$ summability factors" [Portugal Math. **54** (1997), no. 4, 393–398; MR 99c:40008]. **Sharma, Araohana** *see* **Verma, Alok; et al., 99h:33051**
Shen, Xiaoping *see* **Walter, Gilbert G., 99d:42071**
Sinnadurai, J. St. C. L. An elementary proof of the prime number theorem along classical lines. (English summary) **99i:11080**
Sönmez, Abdulcabbar *see* **Seyhan, Hikmet, 99c:40008**
Stadtmüller, Karin *see* **Jakimovski, Amnon, 99f:30004**
Stepanyants, S. A. Tauberian-type theorems and gap conditions for Cesàro and Riesz summability methods. (Russian. Russian summary)
Thorpe, B. *see* **Mirza, M. Y., 99d:40002**
Topolewska, Maria *see* **Łenski, Włodzimierz, 99m:42017**
Verma, Alok (*with* Sharma, Araohana; Kaushik, Pushpa) On absolute Cesaro summability of ultraspherical series. (English summary) **99h:33051**
— On absolute Cesàro summability of Laplace series. (English summary) **99k:40008a**
— On absolute Cesàro summability of Laplace series. (English summary) **99k:40008b**
Walter, Gilbert G. (*with* Shen, Xiaoping) Positive estimation with wavelets. (English summary) **99d:42071**
Weisz, Ferenc Strong summability of two-dimensional trigonometric-Fourier series. (English summary) **99c:42016**

40G10 Abel, Borel and power series methods

Ahmad, Z. U. (*with* Rahiman, P. M. Abdul.) b-translativity of (J, p_n)-method. **99e:40008**
Rahiman, P. M. Abdul. *see* **Ahmad, Z. U., 99e:40008**

Items with secondary classifications in 40G10

Ansari, Amir Ali *see* **Mishra, Babban Prasad, 99f:40003**
Borwein, David (*with* Jakimovski, Amnon) A generalization of Hardy's inequality with applications. (English summary) **99m:26028**
Dzagnidze, O. P. Associated integrals, functions, series and a radial derivative of the Poisson spherical integral.
Jakimovski, Amnon (*with* Stadtmüller, Karin) On matrix transforms of power series with Ostrowski gaps. (English summary) **99f:30004**
— *see also* **Borwein, David, 99m:26028**
Krishnan, V. K. A gap Tauberian theorem connecting Borel and Cesàro summabilities. (English summary) **99m:40008**
Mishra, Babban Prasad (*with* Ansari, Amir Ali) On sequence spaces of scalars. (English summary) **99f:40003**
Roszak, B. On the pointwise approximation by Borel and Euler means. (English summary) **99c:42001**
Shen, Xiaoping *see* **Walter, Gilbert G., 99d:42071**
Stadtmüller, Karin *see* **Jakimovski, Amnon, 99f:30004**
Walter, Gilbert G. (*with* Shen, Xiaoping) Positive estimation with wavelets. (English summary) **99d:42071**

40G99 None of the above, but in this section

Items with secondary classifications in 40G99

Barkatou, Moulay A. (*with* Duval, Anne) Sur la somme de certaines séries de factorielles. (English and French summaries) [On the sum of certain factorial series] **99f:40001**
Borwein, David (*with* Kratz, Werner) A high indices Tauberian theorem. (English summary) **99j:40009**
DeFranza, J. (*with* Fleming, D. J.; Rhoades, Billy E.) On the absolute Hardy-Bohr criteria. (English summary) **99m:40004**
Duval, Anne *see* **Barkatou, Moulay A., 99f:40001**
Fleming, D. J. *see* **DeFranza, J.; et al., 99m:40004**
Kratz, Werner *see* **Borwein, David, 99j:40009**
Lemma, Mulatu Logarithmic transformations into l^1. (English summary) **99k:40004**
Luh, Wolfgang Intersections with Gronwall methods. (English summary) **99j:40007**
Marotte, Fabienne (*with* Zhang, Changgui) Sur la sommabilité des séries entières solutions formelles d'une équation aux q-différences. II. (English and French summaries) [On the summability of formal power series solutions of q-difference equations. II] **99i:39021**
Mishra, Babban Prasad (*with* Singh, Dinesh[2]) Translativity of (A_λ) methods of functions. **99f:40005**
Rhoades, Billy E. Absolute comparison theorems for double weighted mean and double Cesàro means. (English summary) **99i:40005**
— *see also* **DeFranza, J.; et al., 99m:40004**
Singh, Dinesh[2] *see* **Mishra, Babban Prasad, 99f:40005**
Sulaiman, W. T. Generalization concerning inclusion theorems for absolute harmonic-Cesàro method of summation. (English summary) **99m:40011**
Zhang, Changgui Sur la sommabilité des séries entières solutions formelles d'une équation aux q-différences. I. (English and French summaries) [On the summability of formal power series solutions of q-difference equations. I] **99i:39020**
— *see also* **Marotte, Fabienne, 99i:39021**

40H05 Functional analytic methods in summability

Aiyub, M. *see* **Khan, Mushir A., 99j:40017**
Altin, Yilmaz *see* **Bilgin, Tunay, 99h:40011**
Asma, Çiğdem (*with* Et, Mikail) On v-invariant sequence spaces. (English summary) **99m:40014**
Bilgin, Tunay (*with* Altin, Yilmaz) On certain sequence spaces and infinite matrices. (English summary) **99h:40011**
Esi, Ayhan (*with* Et, Mikail) Some new sequence spaces defined by a modulus function. (English summary) **99f:40009**
— (*with* Et, Mikail) Statistical semiperiodic sequence spaces and $[f]$-lacunary statistically convergence. (English summary) **99j:40015**
Et, Mikail *see* **Esi, Ayhan, 99f:40009; 99j:40015** *and* **Asma, Çiğdem, 99m:40014**
Fleming, D. J. (*with* Ruckle, W. H.) Remarks on the Wilansky property. (English summary) **99k:40010**
Gnanaseelan, C. *see* **Srivastava, P. D., 99b:40004**
Jürimäe, E. Perfectness of reversible matrix maps. **99m:40015**

Khan, F. M. (*with* Rahman, M. F.) Infinite matrices and Cesàro sequence spaces. (Russian summary) **99j:40016**
Khan, Mushir A. (*with* Aiyub, M.) A class of matrix transformations. (English summary) **99j:40017**
Khatib, M. A. *see* **Mursaleen; et al., 99g:40004**
Kolk, Enno F-seminormed sequence spaces defined by a sequence of modulus functions and strong summability. (English summary) **99g:40005**
— Corrigendum: "Matrix maps into the space of statistically convergent bounded sequences" [Proc. Estonian Acad. Sci. Phys. Math. **45** (1996), no. 2-3, 187–192; MR 97m:40005]. **99a:40007**
Kwon, Ern Gun Properties of a sequence space $l(s,t)$. (English summary) **99k:40011**
Malkowsky, E. (*with* Rakočević, Vladimir) The measure of noncompactness of linear operators between certain sequence spaces. (English summary) **99i:40011**
Mursaleen (*with* Khatib, M. A.; Qamaruddin) On difference Cesàro sequence spaces of non-absolute type. (English summary) **99g:40004**
— (*with* Qamaruddin) Some new sequence spaces over non-Archimedian fields and their matrix transformations. (English summary) **99k:40009**
Qamaruddin *see* **Mursaleen; et al., 99g:40004** *and* **99k:40009**
Rahman, M. F. *see* **Khan, F. M., 99j:40016**
Rakočević, Vladimir *see* **Malkowsky, E., 99i:40011**
Ruckle, W. H. *see* **Fleming, D. J., 99k:40010**
Savas, Ekrem The space of sequence of which strong almost A-transformations in Ces(p). (English summary) **99g:40006**
— On some sequence spaces. (English summary) **99i:40012**
Sõrmus, Tamara Some properties of generalized summability methods in Banach spaces. (English summary) **99c:40011**
Srivastava, P. D. (*with* Gnanaseelan, C.) A generalized product on some sequences and matrix transformations. (English summary) **99b:40004**

Items with secondary classifications in 40H05

Aiyub, M. *see* **Khan, F. M.; et al., 99h:40005**
Ansari, Amir Ali *see* **Mishra, Babban Prasad, 99f:40003**
Argyros, S. A. (*with* Mercourakis, S.; Tsarpalias, A.) Convex unconditionality and summability of weakly null sequences. (English summary) **99m:46021**
DeFranza, J. (*with* Fleming, D. J.; Rhoades, Billy E.) On the absolute Hardy-Bohr criteria. (English summary) **99m:40004**
Ecalle, Jean (*with* Menous, Frédéric) Well-behaved convolution averages and the non-accumulation theorem for limit-cycles. (English summary) **99b:34058**
Fleming, D. J. *see* **DeFranza, J.; et al., 99m:40004**
Gaur, A. K. Difference sequence spaces defined by a sequence of moduli. (English summary) **99j:40006**
Khan, F. M. (*with* Khan, Mushir A.; Aiyub, M.) Matrix transformations and almost boundedness. (English summary) **99h:40005**
Khan, Mushir A. *see* **Khan, F. M.; et al., 99h:40005**
Malkowsky, E. A survey of recent results concerning a general class of sequence spaces and matrix transformations. (English summary) **99d:40001**
— On a new class of sequence spaces related to absolute and strong summability. (English summary) **99d:40003**
Menous, Frédéric *see* **Ecalle, Jean, 99b:34058**
Mercourakis, S. *see* **Argyros, S. A.; et al., 99m:46021**
Mishra, Babban Prasad (*with* Ansari, Amir Ali) On sequence spaces of scalars. (English summary) **99f:40003**
Rangachari, M. S. Remarks on gap Tauberian theorems. **99a:40004**
Rhoades, Billy E. *see* **DeFranza, J.; et al., 99m:40004**
Slyusarchuk, V. E. A property of absolutely converging numerical series. (Russian) **99h:40008**
Tsarpalias, A. *see* **Argyros, S. A.; et al., 99m:46021**
Waszak, Aleksander (*with* Żurakowski, Dariusz) Musielak-Orlicz spaces of sequences connected with strong summability. (English summary) **99m:40012**
Żurakowski, Dariusz *see* **Waszak, Aleksander, 99m:40012**

40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

Bhattacharyya, Sukes Kumar *see* **Lahiri, B. K., 99h:40013**
Çakalli, Hüseyin Generalized multiplicative series methods in topological groups. (English and Serbo-Croatian summaries) **99b:40005**
— On statistical convergence in topological groups. (English summary) **99b:40006**
Çolak, Rifat (*with* Et, Mikail) On some generalized difference sequence spaces and related matrix transformations. (English summary) **99h:40012**
Et, Mikail *see* **Çolak, Rifat, 99h:40012**
Lahiri, B. K. (*with* Bhattacharyya, Sukes Kumar) A note on rearrangements of series. **99h:40013**
Maddox, I. J. Tauberian theorems for power sequences. **99c:40012**
Savas, Ekrem On almost summable sequences and core of a sequence in non-Archimedean spaces. (English summary) **99e:40009**
Somasundaram, D. On a matrix transformation over non-Archimedian fields. (English summary) **99c:40013**
Sõrmus, Tamara Mercer's theorems for generalized summability methods in Banach spaces. (English and Estonian summaries) **99h:40014**
Suantai, Sutep Banach algebra of matrix transformations of sequence spaces. (English summary) **99h:40015**

Items with secondary classifications in 40J05

Ahmad, Z. U. *see* **Jalal, H. T., 99f:40002**
Antosik, Piotr A lemma on matrices and examples of its applications. (English summary) **99e:40005**
Cheng, Wei[1] *see* **Wu, Jun De; et al., 99i:47051**
Esi, Ayhan Some new sequence spaces defined by a sequence of moduli. (English and Turkish summaries) **99f:46013**
Jalal, H. T. (*with* Ahmad, Z. U.) Invariant means and some matrix transformations. (English summary) **99f:40002**
Khan, F. M. (*with* Khan, Mushir A.) Matrix transformation of $w(p)$ and ces(p) into χ. (English summary) **99h:40004**
Khan, Mushir A. *see* **Khan, F. M., 99h:40004**
Khatib, M. A. *see* **Mursaleen; et al., 99g:40004**
Kolk, Enno Corrigendum: "Matrix maps into the space of statistically convergent bounded sequences" [Proc. Estonian Acad. Sci. Phys. Math. **45** (1996), no. 2-3, 187–192; MR 97m:40005]. **99a:40007**
Li, Rong Lu *see* **Wu, Jun De; et al., 99i:47051**
Mursaleen (*with* Khatib, M. A.; Qamaruddin) On difference Cesàro sequence spaces of non-absolute type. (English summary) **99g:40004**
Natarajan, P. N. (*with* Srinivasan, Vaithinathsamy) Convolution of Nörlund methods in non-Archimedean fields. (English summary) **99f:40007**
— Matrix transformations between certain sequence spaces over valued fields. (English summary) **99f:47036**
Qamaruddin *see* **Mursaleen; et al., 99g:40004**
Sõrmus, Tamara Some properties of generalized summability methods in Banach spaces. (English summary) **99c:40011**
Srinivasan, Vaithinathsamy *see* **Natarajan, P. N., 99f:40007**
Wei, Ziyi *see* **Wu, Jun De, 99e:46011**
Wu, Jun De (*with* Wei, Ziyi) The topological structure of subseries convergence. (English summary) **99e:46011**
— (*with* Li, Rong Lu; Cheng, Wei[1]) Characterizations of a class of matrix transformations. (English summary) **99i:47051**

41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41–01 Instructional exposition (textbooks, tutorial papers, etc.)

Barrera Sánchez, Pablo (*with* Hernández Mederos, Victoria; Durán Sánchez, Claudia) ★ El ABC de los splines. (Spanish. Spanish summary) [The ABC of splines]
Cheney, E. W. ★ Introduction to approximation theory. **99f:41001**
Durán Sánchez, Claudia *see* **Barrera Sánchez, Pablo; et al.**
Hernández Mederos, Victoria *see* **Barrera Sánchez, Pablo; et al.**
Murillo, Roberto The Weierstrass approximation theorem. (Spanish) (*see* **99i:00034**)

41–02 Research exposition (monographs, survey articles)

Bagdasarov, S. K. ★ Chebyshev splines and Kolmogorov inequalities. (English summary) **99h:41001**
Boyanov, Borislav D. Notes on miscellaneous approximation problems. (English summary) **99d:41001**
Cheney, E. W. (*with* Sun, Xingping) Interpolation on spheres by positive definite functions. (English summary) **99d:41002**
Dikshit, H. P. Some recent trends in constructive approximation. **99d:41003**
(Khavinson, Dmitry) *see* **Khavinson, S. Ya., 99d:41004**
Khavinson, S. Ya. ★ Best approximation by linear superpositions (approximate nomography). (English summary) **99d:41004**
Kuzyutin, V. F. *see* **Zhuk, V. V., 99j:41001**
Partington, Jonathan R. ★ Interpolation, identification, and sampling. **99m:41001**
Sun, Xingping *see* **Cheney, E. W., 99d:41002**
Wu, Zong Min Radial basis representations of functions. (Chinese. English and Chinese summaries)
Zhuk, V. V. (*with* Kuzyutin, V. F.) ★ Аппроксимация функций и численное интегрирование. (Russian. Russian summary) [Approximation of functions and numerical integration] **99j:41001**

Items with secondary classifications in 41–02

Brudnyĭ, Yu. A. Timan's type result on approximation by algebraic polynomials. **99c:41007**
Cheney, E. W. ★ Introduction to approximation theory. **99f:41001**
Jerri, Abdul J. ★ The Gibbs phenomenon in Fourier analysis, splines and wavelet approximations. (English summary) **99i:42001**
Peherstorfer, Franz Minimal polynomials on several intervals with respect to the maximum norm—a survey. (English summary) **99c:41011**
Udrea, Gheorghe Chebyshev polynomials and some methods of approximation.

41–03 Historical (must also be assigned at least one classification number from Section 01)

(Butzer, Paul Leo) *see* **Vinti, C., 99c:41001**
Vargas Jarillo, Cristóbal Origin and development of the Weierstrass approximation theorem. (Spanish) (*see* **99i:00034**)
Vinti, C. A survey on recent results of the mathematical seminar in Perugia, inspired by the work of Professor P. L. Butzer. (English summary) **99c:41001**

Items with secondary classifications in 41–03

(Kascó, Daniela) *see* **Popoviciu, Tiberiu, 99c:41012**
Popoviciu, Tiberiu On the proof of Weierstrass' theorem using interpolation polynomials. (French summary) **99c:41012**

41–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 41–04

Kobza, Jiří (*with* Kučera, Radek) Spline toolbox in MATLAB. (English summary) **99c:65020**
— Quadratic and quartic splines in MATLAB. (English summary) **99c:65021**
Kučera, Radek *see* **Kobza, Jiří, 99c:65020**

41–06 Proceedings, conferences, collections, etc.

(Fontanella, F.) *see* **Advanced topics in multivariate approximation, 99f:41002**
(Haußmann, Werner) *see* **Multivariate approximation, 99a:41001**
(Jetter, Kurt) *see* **Multivariate approximation, 99a:41001** *and* **Advanced topics in multivariate approximation, 99f:41002**
(Laurent, Pierre-Jean) *see* **Advanced topics in multivariate approximation, 99f:41002**
(Reimer, Manfred) *see* **Multivariate approximation, 99a:41001**

Items listed otherwise than by author

Advanced topics in multivariate approximation ★ Advanced topics in multivariate approximation. **99f:41002**
Conference:
Multivariate Approximation Theory ★ Multivariate approximation. **99a:41001**
Montecatini Terme ★ Advanced topics in multivariate approximation. **99f:41002**
Multivariate approximation ★ Multivariate approximation. **99a:41001**
Witten-Bommerholz ★ Multivariate approximation. **99a:41001**
Workshop:
Multivariate Approximation and Interpolation ★ Advanced topics in multivariate approximation. **99f:41002**

Items with secondary classifications in 41–06

(Deninger, Christopher) *see* **Series of the Mathematical Institute of the University of Münster, Series 3, 99b:00011**
(Deslauriers, Gilles) *see* **Spline functions and the theory of wavelets, 99i:65005**
(Dubuc, Serge) *see* **Spline functions and the theory of wavelets, 99i:65005**
(Govil, Narendra K.) *see* **Approximation theory, 99a:00051**
(Jones, William B.) *see* **Orthogonal functions, moment theory, and continued fractions, 99f:00020**
(Le Méhauté, Alain) *see* **Surface fitting and multiresolution methods, 99g:65005**
(Marcellán, Francisco) *see* **Complex methods in approximation theory, 99b:00012**
(Martínez-Finkelshtein, Andrei) *see* **Complex methods in approximation theory, 99b:00012**
(Mohapatra, Ram Narayan) *see* **Approximation theory, 99a:00051**
(Moreno-Balcázar, Juan J.) *see* **Complex methods in approximation theory, 99b:00012**
(Nashed, M. Zuhair) *see* **Approximation theory, 99a:00051**
(Rabut, Christophe) *see* **Surface fitting and multiresolution methods, 99g:65005**
(Schumaker, Larry L.) *see* **Surface fitting and multiresolution methods, 99g:65005**
(Sharma, Ambikeshwar) *see* **Approximation theory, 99a:00051**
(Sri Ranga, Alagacone) *see* **Orthogonal functions, moment theory, and continued fractions, 99f:00020**
(Szabados, J.) *see* **Approximation theory, 99a:00051**
(Varma, Arun Kumar) *see* **Approximation theory, 99a:00051**

Items listed otherwise than by author

Acquafredda di Maratea ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Almería ★ Complex methods in approximation theory. **99b:00012**
Approximation theory ★ Approximation theory. **99a:00051**
Campinas ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Chamonix–Mont-Blanc ★ Surface fitting and multiresolution methods. **99g:65005**
Complex methods in approximation theory ★ Complex methods in approximation theory. **99b:00012**
Conference:
Curves and Surfaces ★ Surface fitting and multiresolution methods. **99g:65005**
Functional Analysis and Approximation Theory ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Orthogonal Functions, Moment Theory, and Continued Fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Memorial Volume:
Varma, Arun Kumar ★ Approximation theory. **99a:00051**
Montreal, PQ ★ Spline functions and the theory of wavelets. **99i:65005**
Orthogonal functions, moment theory, and continued fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Proceedings:
Conference on Functional Analysis and Approximation Theory ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 22. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 22] **99b:00011**
Series of the Mathematical Institute of the University of Münster, Series 3 ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 22. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 22] **99b:00011**
Spline functions and the theory of wavelets ★ Spline functions and the theory of wavelets. **99i:65005**
Surface fitting and multiresolution methods ★ Surface fitting and multiresolution methods. **99g:65005**
Workshop:
Methods of Complex Analysis in Approximation Theory ★ Complex methods in approximation theory. **99b:00012**
Spline Functions and the Theory of Wavelets ★ Spline functions and the theory of wavelets. **99i:65005**

41A05 Interpolation [see also 42A15 and 65D05]

Akopyan, A. A. Regularity of multivariate Hermite interpolation. (English summary) (*see* **99a:41001**)
Amanzhaev, G. G. Approximate tabulation of discrete analogues of functions of finite smoothness in the L^p metric. (Russian. Russian summary) **99c:41002**
de Andrade, Eliana X. L. (*with* Dimitrov, Dimitar K.) Chebyshev-Laurent polynomials and weighted approximation. (English summary) **99k:41001**
Bahadur, Swarnima (*with* Mathur, Kewal Krishna) Quasi-Hermite interpolation on the unit circle. (English summary)
Balázs, J. Modified weighted $(0, 2)$ interpolation. (English summary) **99f:41003**
Bărbosu, Dan Some Hermite bivariate interpolation procedures. (English summary)
Besga, Concepción *see* **Luquín Martínez, Francisco, 99m:41003**
Bos, L. P. (*with* De Marchi, S.) Limiting values under scaling of the Lebesgue function for polynomial interpolation on spheres. (English summary) **99k:41002**

de Bruin, M. G. (*with* Sharma, Ambikeshwar; Szabados, J.) Birkhoff type interpolation on perturbed roots of unity. (English summary) **99c:41003**

Brutman, Lev On rational interpolation to $|x|$ at the adjusted Chebyshev nodes. (English summary) **99h:41002**

Buhmann, Martin D. Radial functions on compact support. (English summary) **99d:41005**

(Chui, Charles K.) *see* **Tu, Tianliang, 99m:41006**

Damelin, S. B. The weighted Lebesgue constant of Lagrange interpolation for exponential weights on $[-1, 1]$. (English summary) **99j:41002**

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41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

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41A50 Best approximation, Chebyshev systems

Alimov, A. R. Chebyshev compact sets on the plane. (Russian) **99m:41044**
Carnicer, J. M. (*with* Peña, J. M.; Zalik, Richard A.) Strictly totally positive systems. (English summary) **99c:41054**
Finzel, Martina (*with* Li, Wu[3]) Uniform Lipschitz continuity of best l_p-approximations by polyhedral sets. (English summary) **99k:41043**
Garkavi, A. L. On the existence of a best approximation of a function of two variables by sums of plane waves. (Russian) **99i:41025**
Gehlen, W. On measures induced by extremal signatures in best real polynomial approximation. (English summary) **99a:41041**
Guo, Tie-Xin (*with* You, Zhao Yong) A note on pointwise best approximation. (English summary) **99c:41055**
Harris, Lawrence A. Coefficients of polynomials of restricted growth on the real line. (English summary) **99c:41056**
Ismailov, V. È. Two-sided estimates for best approximation in domains consisting of a union of rectangles. (Russian. English and Azerbaijani summaries) **99i:41026**
Iturrieta, Miguel (*with* Zó, Felipe) Best monotone L_φ-approximations in several variables. (English summary) **99m:41045**
Johnson, Peter D., Jr. Continuous functions which change sign without properly crossing the x-axis. (English summary) **99b:41018**
Li, Chong[1] (*with* Wang, Xing Hua) Lipschitz continuity of best approximations and Chebyshev centers. (English summary) **99d:41045**
Li, Song The equivalence relations between the best approximation and linear operators approximation in a Besov space. (English summary) **99b:41019**
Li, Wu[3] *see* **Finzel, Martina, 99k:41043**
Lipieta, Agnieszka Cominimal projections in l_∞^n. (English summary) **99k:41044**
Mabizela, Sizwe Weak Chebyshev subspaces and continuous selections for parametric projections. (English summary) **99b:41020**
Maier, Ulrike On best approximation of the monomials on the unit ball of $\mathbf{R}^r$. (English summary) **99j:41047**
Peña, J. M. *see* **Carnicer, J. M.; et al., 99c:41054**
Pérez Acosta, Francisco On a theorem of Bernstein and its applications to weighted minimax series. (English summary) **99k:41045**
Sevast'yanov, E. A. On the Haar problem for sign-sensitive approximations. (Russian) **99a:41042**
Smĭrnov, G. S. (*with* Smirnov, Roman G.) Best uniform restricted ranges approximation of complex-valued functions. (English and French summaries) **99d:41046**
Smirnov, Roman G. *see* **Smĭrnov, G. S., 99d:41046**
Temlyakov, V. N. Non-linear m-term approximation with regard to the multivariate Haar system. (English summary) **99d:41047**
Udrea, Gheorghe Chebyshev polynomials and some methods of approximation.
Vlasov, L. P. Chebyshev subspaces of finite codimension in the complex $C(Q)$. (Russian. Russian summary) **99c:41057**
Wang, Xing Hua *see* **Li, Chong[1], 99d:41045**
Wang, Zhengming Density of Markov systems and zeros of Chebyshev polynomials. (English summary) **99m:41046**
You, Zhao Yong *see* **Guo, Tie-Xin, 99c:41055**
Zalik, Richard A. Relative differentiation, Descartes' rule of signs, and the Budan-Fourier theorem for Markov systems. (English summary) **99d:41048**
— *see also* **Carnicer, J. M.; et al., 99c:41054**
Zhang, Pei Xuan Characterization of the convergence domains of polynomial series and the minimal convergence domain. (English summary)
Zó, Felipe *see* **Iturrieta, Miguel, 99m:41045**

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Almira Picazo, J. M. (*with* Pérez Acosta, Francisco) Some extremal properties of generalized Tchebyshev polynomials. (English summary) **99f:41006**
de Andrade, Eliana X. L. (*with* Dimitrov, Dimitar K.) Chebyshev-Laurent polynomials and weighted approximation. (English summary) **99k:41001**
Armitage, David H. (*with* Haußmann, Werner; Zeller, Karl) Best harmonic and polyharmonic approximation. **99c:31008**
Berisha, Faton M. On coincidence of classes of functions defined by the generalized modulus of smoothness and appropriate inverse theorem. (English summary) **99i:41021**
Bridges, Douglas (*with* Wang, Yuchuan) Constructing best approximations on a Jordan curve. (English summary) **99g:41038**
(Butzer, Paul Leo) *see* **Vinti, C., 99c:41001**
Cho, Yeol Je (*with* Pathak, H. K.; Jung, Jong Soo) Applications of coincidence theorems to best approximation theory. (English summary) **99i:47100**
Chung, Soon-Yeong An interpolation by successive derivatives at a finite set. (English summary) **99j:41010**
Dimitrov, Dimitar K. *see* **de Andrade, Eliana X. L., 99k:41001**
Dudov, S. I. Subdifferentiability and superdifferentiability of the distance function. (Russian. Russian summary) **99d:49032**
Finta, Z. Best piecewise convex uniform approximation. (English summary) **99c:41037**
Flyer, Natasha Asymptotic upper bounds for the coefficients in the Chebyshev series expansion for a general order integral of a function. (English summary) **99a:42017**
Gevorkyan, Gegham On the uniqueness of additive functions of dyadic cubes and series in the Haar system. (Russian. English and Russian summaries) **99h:41035**
Haußmann, Werner *see* **Armitage, David H.; et al., 99c:31008**
Jung, Jong Soo *see* **Cho, Yeol Je; et al., 99i:47100**
Kálovics, Ferenc (*with* Mészáros, Gabriella) Equation fitting to given points by Chebyshev approximation. (English and German summaries)
Karakuş, Yusuf Best simultaneous L_p approximations. (English summary) **99d:41032**
Karlov, M. I. Chebyshev sets on manifolds. (Russian. English and Russian summaries) **99a:53031**
(Khavinson, Dmitry) *see* **Khavinson, S. Ya., 99d:41004**
Khavinson, S. Ya. ★ Best approximation by linear superpositions (approximate nomography). (English summary) **99d:41004**
Kocharyan, G. S. On convergence in the mean. (Russian. English and Russian summaries) **99f:41015**
Kornienko, A. A. On the Jackson theorem in the space with convergence in measure. (English summary) **99i:42005**
Koshcheev, V. A. On partitions of compact spaces that admit T-systems of complex functions. (Russian. Russian summary) **99e:54005**
Kostova, Violeta At. On a generalization of Jackson's theorem in $\mathbf{R}^m$. (English summary) **99k:41014**
Krüppel, Manfred On the nearest point projection in Hilbert spaces with application to nonlinear ergodic theory. (English summary) **99h:47062**
Landers, D. (*with* Rogge, L.) Best φ-approximants for bounded loss functions. (English summary) **99i:62226**
Leindler, László Inequalities for Dirichlet series with positive coefficients and related integrals. (English and Russian summaries) **99m:40002**
Ludwig, Monika Asymptotic approximation of convex curves: the Hausdorff metric case. (English summary) **99c:52008**
Lukashov, A. L. On Chebyshev-Markov rational functions over several intervals. (English summary) **99j:41026**
Meinardus, G. (*with* Oettli, Werner) On a certain duality of segmented minmax problems. (English summary) **99h:41015**
Mészáros, Gabriella *see* **Kálovics, Ferenc**
Nguyễn Xuân Ký Moduli of mean smoothness and approximation with A_p-weights. **99d:42002**
Nishishiraho, Toshihiko Converse results for the best approximation in Banach spaces. (English summary) **99c:41069**
— A de La Vallée Poussin type theorem in Banach spaces. **99a:41053**
Oettli, Werner *see* **Meinardus, G., 99h:41015**
Parvanov, P. E. A characterization of best multivariate algebraic approximations from below and from above in terms of K-functionals. (English summary) **99g:41027**
Pathak, H. K. *see* **Cho, Yeol Je; et al., 99i:47100**
Pérez Acosta, Francisco *see* **Almira Picazo, J. M., 99f:41006**
Polovinkin, V. I. Approximations of the Bernoulli polynomials by constants and applications to the theory of quadrature formulas. (English summary) **99j:41046**
Polyakov, O. V. On the approximation of certain classes of differentiable functions by generalized splines. (Russian. English and Ukrainian summaries) **99b:41004**
Rogge, L. *see* **Landers, D., 99i:62226**
Sherstyukov, V. B. On a class of complete systems. (Russian. English and Russian summaries)
Shi, Ying Guang Optimal Lebesgue function type sums. **99h:41005**
Steffens, Karl-Georg On the lower semicontinuity of best rational Chebyshev-approximation to differentiable functions. **99d:41028**
— A general necessary condition for the lower semicontinuity of best rational Chebyshev approximation to differentiable functions. (English summary) **99j:41027**
Timoshin, O. A. Best approximation of a derivative, and analogues of Landau's inequality in a half-space. (Russian) **99j:41030**
— Best approximation of the operator of the second mixed derivative. (Russian. Russian summary) **99c:41043**
Villemoes, Lars F. Best approximation with Walsh atoms. (English summary) **99f:42069**
Vinti, C. A survey on recent results of the mathematical seminar in Perugia, inspired by the work of Professor P. L. Butzer. (English summary) **99c:41001**
Wallisser, Rolf A theorem of Müntz type for Chebyshev polynomials. (English summary) (*see* **99f:11003**)
Wang, Yuchuan *see* **Bridges, Douglas, 99g:41038**
Zeller, Karl *see* **Armitage, David H.; et al., 99c:31008**
Zhou, Song Ping Some remarks on rational Müntz approximation on $[0, \infty)$. **99g:41018**

41A52 Uniqueness of best approximation

Bartelt, Martin W. (*with* Li, Wu[3]) Abadie's constraint qualification, Hoffman's error bounds, and Hausdorff strong unicity. (English summary) **99k:41046**
Bridges, Douglas (*with* Wang, Yuchuan) Constructing best approximations on a Jordan curve. (English summary) **99g:41038**
Gevorkyan, Gegham On the uniqueness of additive functions of dyadic cubes and series in the Haar system. (Russian. English and Russian summaries) **99h:41035**
Karlov, M. I. Chebyshev layer of manifolds in a Hilbert space. (Russian) **99k:41047**
Li, Wu[3] *see* **Bartelt, Martin W., 99k:41046**
Wang, Yuchuan *see* **Bridges, Douglas, 99g:41038**

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de Blasi, Francesco S. (*with* Myjak, Józef) On a generalized best approximation problem. (English summary) **99i:41034**
Khavin, Viktor Petrovich *see* **Malinnikova, E. V., 99g:58005**
Li, Chong[1] (*with* Watson, G. Alistair) Best simultaneous approximation of an infinite set of functions. (English summary) **99j:41057**
Malinnikova, E. V. (*with* Khavin, Viktor Petrovich) Uniform approximation by harmonic differential forms. A constructive approach. (Russian. Russian summary) **99g:58005**

Myjak, Józef *see* **de Blasi, Francesco S., 99i:41034**
Sevast'yanov, E. A. On the Haar problem for sign-sensitive approximations. (Russian) **99a:41042**
Smīrnov, G. S. (*with* Smirnov, Roman G.) Best uniform restricted ranges approximation of complex-valued functions. (English and French summaries) **99d:41046**
Smirnov, Roman G. *see* **Smīrnov, G. S., 99d:41046**
Watson, G. Alistair *see* **Li, Chong[1], 99j:41057**

41A55 Approximate quadratures

Akimenko, V. V. On quadrature and cubature formulas for a class of multiple singular integrals. (Russian. English and Ukrainian summaries) **99m:41047**
Ben Ghanem, Riadh (*with* Frappier, Clément) Explicit quadrature formulae for entire functions of exponential type. (English summary) **99k:41048**
Blunck, S. Weights and angles of quadrature rules on the sphere S^{n-1}. (English summary) **99a:41043**
Bos, L. P. *see* **Korevaar, J., 99k:41049**
Boyanov, Borislav D. A note on the Hobby-Rice and Gauss-Krein theorems. (English summary) **99i:41027**
— (*with* Petrova, Guergana) Numerical integration over a disc. A new Gaussian quadrature formula. (English summary) **99j:41048**
Du, Jinyuan Quadrature formulas of quasi-interpolation type for singular integrals with Hilbert kernel. (English summary) **99e:41021**
— Quasi-Gaussian quadrature formulas. (English and Chinese summaries)
Förster, K.-J. (*with* Köhler, P.; Nikolov, Geno P.) Monotonicity and stopping rules for compound Gauss-type quadrature formulae. (English summary) **99a:41044**
Frappier, Clément *see* **Ben Ghanem, Riadh, 99k:41048**
Köhler, P. *see* **Förster, K.-J.; et al., 99a:41044**
Korevaar, J. (*with* Bos, L. P.) Characterization of algebraic curves by Chebyshev quadrature. (English summary) **99k:41049**
Kzaz, M. Gaussian quadrature and acceleration of convergence. (English summary) **99c:41058**
Lawton, Wayne (*with* Micchelli, Charles A.) Construction of conjugate quadrature filters with specified zeros. (English summary) **99b:41021**
Liang, Xue-Zhang (*with* Lü, Chun-Mei) On the integral convergence of Kergin interpolation on the disk. (English summary) **99m:41048**
Lü, Chun-Mei *see* **Liang, Xue-Zhang, 99m:41048**
Lu, Wan Jin (*with* Xiao, Xiang Wu; Zhang, Fa Yong) A note on Gaussian type quadrature formulas with Chebyshev weight functions. (Chinese. English and Chinese summaries)
Lubinsky, D. S. Marcinkiewicz-Zygmund inequalities: methods and results. (English summary) **99a:41045**
Mastronardi, N. (*with* Occorsio, Donatella) Product integration rules on the semiaxis. (English summary) **99f:41034**
Micchelli, Charles A. *see* **Lawton, Wayne, 99b:41021**
Milovanović, Gradimir V. (*with* Spalević, Miodrag M.) Construction of Chakalov-Popoviciu's type quadrature formulae. (English summary) **99f:41035**
Nikolov, Geno P. *see* **Förster, K.-J.; et al., 99a:41044**
Occorsio, Donatella *see* **Mastronardi, N., 99f:41034**
Petras, Knut Guassian versus optimal integration of analytic functions. (English summary) **99g:41039**
— Quadrature error estimates involving moduli of continuity of derivatives. (English summary) **99f:41036**
Petrova, Guergana *see* **Boyanov, Borislav D., 99j:41048**
Shi, Ying Guang On Turán quadrature formulas for the Chebyshev weight. (English summary) **99j:41049**
Spalević, Miodrag M. *see* **Milovanović, Gradimir V., 99f:41035**
Voloshina, Ī. A. Optimal formulas for the approximate computation of multiple integrals by means of integrals of lower multiplicity. (Ukrainian) (*see* **99a:00015**)
Xiao, Xiang Wu *see* **Lu, Wan Jin; et al.**
Xu, Yuan[1] Minimal cubature formulae for a family of radial weight functions. (English summary) **99d:41049**
Zhang, Fa Yong *see* **Lu, Wan Jin; et al.**

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Acu, Dumitru Optimal combined quadrature formulas concerning the efficiency. **99b:65026**
— V-optimal quadrature formulas of Gauss-Christoffel type. (English summary) **99m:65045**
Alvarez Marín, Luz del Carmen *see* **Fernández Muñiz, José L., 99h:28006**
Bakhramov, S. A. *see* **Israilov, M. I., 99e:41009**
Boyanov, Borislav D. (*with* Guessab, Allal) Gaussian quadrature formula of Birkhoff's type. (English summary) **99j:65033**
Chernaya, E. V. *see* **Ligun, A. A., 99m:41032**
Cools, Ronald Constructing cubature formulae: the science behind the art. (English summary) **99f:65038**
— (*with* Maerten, Bart) A hybrid subdivision strategy for adaptive integration routines. (English summary) **99h:65040**
Criscuolo, Giuliana (*with* Scuderi, L.) Convergence of product quadrature rules with preassigned nodes. (English summary) **99c:65046**
— (*with* Scuderi, L.) The numerical evaluation of Cauchy principal value integrals with non-standard weight functions. (English summary) **99f:65039**
— On the numerical evaluation of certain Hadamard finite-part integrals. (English summary) **99h:65041**
Deng, Cai Xia *see* **Xu, Ya Lan**
Diethelm, Kai Error bounds for spline-based quadrature methods for strongly singular integrals. (English summary) **99e:65037**
Elliott, David Sigmoidal transformations and the trapezoidal rule. (English summary) **99j:65030**
Fernández Muñiz, José L. (*with* Alvarez Marín, Luz del Carmen) The R_F-convergence and theorems of Banach-Steinhaus type. (English summary) **99h:28006**
Fliege, Jörg (*with* Maier, Ulrike) The distribution of points on the sphere and corresponding cubature formulae. (English summary)
Gautschi, Walter (*with* Milovanović, Gradimir V.) s-orthogonality and construction of Gauss-Turán-type quadrature formulae. (English summary) **99a:65030**
Gavrea, Ioan (*with* Gonska, Heinz H.; Kacsó, Daniela P.) Variation on Butzer's problem: characterization of the solutions. (English summary) **99c:41050**
Gilewicz, Jacek (*with* Pindor, Maciej) Padé-type approximants and errors of Padé approximants. (English summary) **99k:41017**
Gonska, Heinz H. *see* **Gavrea, Ioan; et al., 99c:41050**
Guessab, Allal *see* **Boyanov, Borislav D., 99j:65033**
Hunter, D. B. (*with* Nikolov, Geno P.) Gaussian quadrature of Chebyshev polynomials. (English summary) **99g:65028**
Israilov, M. I. (*with* Bakhramov, S. A.) Error estimates for an interpolation cubic spline. (Russian. English and Uzbek summaries) **99e:41009**
— Quadrature formulas for singular integrals with nonstandard weights. (Russian. English and Uzbek summaries) **99j:65034**
Jung, H. S. (*with* Kwon, Kil Hyun) Convergence of a quadrature formula for variable-signed weight functions. (English summary) **99d:65079**
Kacsó, Daniela P. *see* **Gavrea, Ioan; et al., 99c:41050**
Khajah, H. G. Tau method approximation of a generalized Epstein-Hubbell elliptic-type integral. (English summary) **99m:65044**
Kim, Philsu (*with* Lee, Sung Yun) A piecewise linear quadrature of Cauchy singular integrals. (English summary) **99h:65042**
Köhler, P. On the error of quadrature formulae for Cauchy principal value integrals based on piecewise interpolation. (English summary) **99i:65023**
(Kutateladze, S. S.) *see* **Sobolev, Sergeĭ L'vovich, 99g:65029b**
Kuzyutin, V. F. *see* **Zhuk, V. V., 99j:41001**
Kwon, Kil Hyun *see* **Jung, H. S., 99d:65079**
Lee, Sung Yun *see* **Kim, Philsu, 99h:65042**
Ligun, A. A. (*with* Chernaya, E. V.) On extremal problems in classes of functions defined by integral moduli of continuity. (Russian. English and Ukrainian summaries) **99m:41032**
Maerten, Bart *see* **Cools, Ronald, 99h:65040**
Maier, Ulrike *see* **Fliege, Jörg**
Milovanović, Gradimir V. S-orthogonality and generalized Turán quadratures: construction and applications. **99d:65073**
— *see also* **Gautschi, Walter, 99a:65030**
Min, Guo Hua Lobatto-type quadrature formula in rational spaces. (English summary) **99m:65048**
Mysovskikh, I. P. On cubature formulas that are exact for trigonometric polynomials. (Russian. Russian summary) **99d:65082**
Nikolov, Geno P. *see* **Hunter, D. B., 99g:65028**
Noakes, J. Lyle Accelerations of Riemannian quadratics. (English summary) **99i:53013**
Pindor, Maciej *see* **Gilewicz, Jacek, 99k:41017**
Podisuk, Maitree On some quadrature formulas for multiple integrals. (English summary) (*see* **99g:00046**)
Ramazanov, M. D. Optimization of the norm of the error functional for the lattice cubature formula in the scale of Wiener spaces. (Russian)
— *see also* **Sobolev, Sergeĭ L'vovich, 99g:65029a**
Scuderi, L. *see* **Criscuolo, Giuliana, 99c:65046** *and* **99f:65039**
Sobolev, Sergeĭ L'vovich (*with* Vaskevich, V. L.) ★ Кубатурные формулы. (Russian) [Cubature formulas] **99g:65029a**
— (*with* Vaskevich, V. L.) ★ The theory of cubature formulas. (English summary) **99g:65029b**
Spalević, Miodrag M. Product of Turán quadratures for ellipse and regions bounded by orthogonal parabolas. (English and Serbo-Croatian summaries) **99g:65030**
— Product of rectangle and Gauss-Turán's quadratures for n-sphere. (English and Serbian summaries) **99i:65024**
Stalker, John A convergence speeding algorithm with applications to numerical integration. (English summary) **99j:65002**
Stoyanova, S. B. Invariant cubature formulas for a hyperoctahedron. (Russian. Russian summary) **99d:65084**
Vaskevich, V. L. *see* **Sobolev, Sergeĭ L'vovich, 99g:65029a** *and* **99g:65029b**
Xu, Ya Lan (*with* Deng, Cai Xia) Optimal formulas for numerical integration in $H_0^1[a,b]$. (Chinese. English and Chinese summaries)
Yang, Chang Lan The constructing of a double numerical integration formula of the boundary type. (Chinese. English and Chinese summaries)
Zhuk, V. V. (*with* Kuzyutin, V. F.) ★ Аппроксимация функций и численное интегрирование. (Russian. Russian summary) [Approximation of functions and numerical integration] **99j:41001**

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

Belt, Harm J. W. *see* **den Brinker, Albertus C., 99i:41028**
den Brinker, Albertus C. (*with* Belt, Harm J. W.) Optimal free parameters in orthonormal approximations. (English summary) **99i:41028**
Chandra, Prem (*with* Kanur, Hitesh) On the rate of convergence of Laguerre series. (English summary)
González-Concepción, Concepción *see* **Pestano-Gabino, Celina, 99d:41050**
Kanur, Hitesh *see* **Chandra, Prem**
Mazhar, S. M. (*with* Móricz, Ferenc) Integrability of double power series with nonnegative coefficients. (English summary) **99e:41022**
Móricz, Ferenc *see* **Mazhar, S. M., 99e:41022**
Pandzhikidze, L. K. About multiply analogies of one result by S. B. Stechkin. (English summary)
Pestano-Gabino, Celina (*with* González-Concepción, Concepción) Rationality, minimality and uniqueness of representation of matrix formal power series. (English summary) **99d:41050**

Schmid, Ulrich Hans On the approximation of positive functions by power series. II. (English summary) **99a:41046**
Singh, Vikramaditya On order of partial sums of Legendre series. **99d:41051**
Temlyakov, V. N. The best m-term approximation and greedy algorithms. (English summary) **99f:41037**
Tkebuchava, G. E. On unconditional convergence in the spaces $L^p(I^d)$, $0 < p < \infty$, $d \geq 1$, of series in the Haar system. (Russian. English and Georgian summaries)
Verlinden, Pierre p-adic Euler-Maclaurin expansions. (English summary) **99d:41052**
Waldron, Shayne Multipoint Taylor formulae. (English summary) **99h:41036**

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Abdel-Ghaffar, Khaled A. S. Long division for Laurent series matrices and the optimal assignment problem. (English summary) **99e:15022**
Annaby, Mahmoud H. Sampling expansions for discrete transforms and their relationship with interpolation series. (English summary) **99g:39019**
Berkes, István (*with* Philipp, Walter) A limit theorem for lacunary series $\sum f(n_k x)$. (English summary) **99g:42007**
Defez, Emilio (*with* Jódar, Lucas) Some applications of the Hermite matrix polynomials series expansions. (English summary) **99j:33010**
Estrada, Ricardo On the Euler-Maclaurin formula. (English summary) **99a:65011**
Frolov, Yu. N. Expansion of entire functions in Lagrange series. (Russian. Russian summary) **99e:30019**
García, Antonio G. *see* **Zayed, Ahmed I., 99g:41004**
Gregory, R. Douglas Uniform bounds for $P_n^m(\cos\theta)$ and the absolute convergence of series expansions in spherical surface harmonics. (English summary) **99c:33022**
Hasson, Maurice Expansion of analytic functions of an operator in series of Faber polynomials. (English summary) **99b:47023**
van der Hoeven, Joris ★ Asymptotique automatique. (English and French summaries) [Automatic asymptotics] **99h:34078**
Jódar, Lucas *see* **Defez, Emilio, 99j:33010**
Mu, Le Hua The rate of convergence for the conjugate series of mixed Jacobi series. (English and Chinese summaries) **99d:33013**
Olde Daalhuis, A. B. Hyperterminants. II. (English summary) **99c:34116**
(Pankrat'ev, E. V.) *see* **Suetin, P. K., 99m:30001**
Philipp, Walter *see* **Berkes, István, 99g:42007**
Stokolos, A. M. (*with* Trebels, W.) On the rate of almost everywhere convergence of Abel-Cartwright means on $L^p(\mathbf{R}^n)$. (English summary) **99k:42017**
Suetin, P. K. ★ Series of Faber polynomials. (English summary) **99m:30001**
Trebels, W. *see* **Stokolos, A. M., 99k:42017**
Walker, James Stephan Fourier analysis and wavelet analysis. **99c:42003**
Zayed, Ahmed I. (*with* García, Antonio G.) Kramer's sampling theorem with discontinuous kernels. (English summary) **99g:41004**

41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

Anastassiou, George A. Weak convergence of squashing neural network operators studied asymptotically. (English summary) **99c:41059**
Bender, Edward A. (*with* Richmond, L. Bruce) Multivariate asymptotics for products of large powers with applications to Lagrange inversion. (English summary) **99j:41050**
Bobrowski, Dobiesław A. On the approximation of positive sequence. (English summary) **99a:41047**
Byatt-Smith, J. G. B. Formulation and summation of hyperasymptotic expansions obtained from integrals. (English summary) **99k:41050**
Dodunova, L. K. Approximation of analytic functions by de la Vallée-Poussin sums. (Russian) **99g:41040**
Jin, Xue-Si (*with* Wong, Roderick) Uniform asymptotic expansions for Meixner polynomials. (English summary) **99c:41060**
Kaminski, D. (*with* Paris, R. B.) Asymptotics via iterated Mellin-Barnes integrals: application to the generalised Faxén integral. (English summary) **99a:41048**
López García, José Luis Asymptotic expansions of integrals: the term-by-term integration method. (English summary) **99k:41051**
Papamichael, N. (*with* Stylianopoulos, N. S.) The asymptotic behavior of conformal modules of quadrilaterals with applications to the estimation of resistance values. (English summary) **99i:41029**
Paris, R. B. The asymptotic expansion of Gordeyev's integral. (English summary) **99c:41061**
— *see also* **Kaminski, D., 99a:41048**
Richmond, L. Bruce *see* **Bender, Edward A., 99j:41050**
Richter, Christian Entropy, approximation quantities and the asymptotics of the modulus of continuity. (English summary) **99j:41051**
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Baskakov, V. A. Asymptotics of the approximation of individual functions by generalized Fejér operators. (Russian. English summary) **99d:41039**
Boyd, W. G. C. Recent developments in asymptotics obtained via integral representations of Stieltjes-transform type. (English summary) **99d:34100**
Ciupa, Alexandra On the approximation by integral Favard-Szasz type operators. (English summary) **99m:41035**
Costabile, F. (*with* Gualtieri, M. I.; Serra, Stefano) An extrapolation technique for general exponential type operators. (English summary) **99h:41025**
Davies, Ian M. Laplace asymptotic expansions for Gaussian functional integrals. (English summary) **99i:60109**
Elbert, Árpád (*with* Laforgia, Andrea) An upper bound for the zeros of the cylinder function $C_\nu(x)$. (English summary) **99c:33005**
Gawronski, Wolfgang (*with* Gröling, Alexander) Oscillating asymptotics for $\sum_0^\infty \log^k(n+1)z^n$. (English summary) **99a:30037**
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Gröling, Alexander *see* **Gawronski, Wolfgang, 99a:30037**
Gruber, Peter M. Asymptotic estimates for best and stepwise approximation of convex bodies. IV. (English summary) **99j:52006**
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Pituk, Michal Asymptotic behavior of a Poincaré recurrence system. (English summary) **99a:39026**
Ponnusamy, S. (*with* Vuorinen, Matti K.) Asymptotic expansions and inequalities for hypergeometric functions. (English summary) **99b:33004**
Qu, C. K. (*with* Wong, Roderick) "Best possible" upper and lower bounds for the zeros of the Bessel function $J_\nu(x)$. (English summary) **99j:33006**
Sabina, José C. *see* **Lacey, Andrew A.; et al., 99g:35066**
Santos-León, J. C. Asymptotic expansions for trapezoidal type product integration rules. (English summary) **99d:65076**
Serra, Stefano *see* **Costabile, F.; et al., 99h:41025**
Snapp, Robert R. (*with* Venkatesh, Santosh S.) Asymptotic expansions of the k nearest neighbor risk. (English summary) **99h:62062**
Venkatesh, Santosh S. *see* **Snapp, Robert R., 99h:62062**
Vuorinen, Matti K. *see* **Ponnusamy, S., 99b:33004**
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Wong, Roderick Some unsolved problems in asymptotics. (English summary) **99e:39046**
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Akopyan, A. A. *see* **Gevorgyan, O. V.; et al., (99f:41002)**
Andor, László *see* **Lukács, Gábor, (99d:65004)**
Andrianov, A. V. (*with* Temlyakov, V. N.) On two methods for generalizing the properties of systems of functions of one variable to their tensor product. (Russian) **99k:41052**
Augel, Alan Multivariate mean value interpolation. (English summary) **99i:41030**
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de Boor, Carl The error in polynomial tensor-product, and Chung-Yao interpolation. (English summary) **99j:41053**
Carnicer, J. M. (*with* Gasca, Mariano) Bivariate polynomial interpolation with asymptotic conditions. (English summary) (*see* **99g:65002**)
Cohen, Albert (*with* Dyn, Nira; Levin, David) Stability and inter-dependence of matrix subdivision schemes. (English summary) **99g:41041**
Cohen-Or, Daniel (*with* Levin, David) Guided multi-dimensional reconstruction from cross-sections. (English summary) (*see* **99f:41002**)
Davydov, O. V. (*with* Nürnberger, Günther; Zeilfelder, F.) Approximation order of bivariate spline interpolation for arbitrary smoothness. (English summary) **99c:41062**
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Dinh Dung Moduli of smoothness for hyperbolic approximations of multivariate functions. (English summary) **99e:41023**
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Dyn, Nira *see* **Cohen, Albert; et al., 99g:41041**
Elsässer, Bernhard Approximation with rational B-spline curves and surfaces. (English summary) **99d:41053**
Fan, Ai Hua (*with* Lau, Ka-Sing) Asymptotic behavior of multiperiodic functions $G(x) = \prod_{n=1}^\infty g(x/2^n)$. (English summary) **99j:41054**
Fang, Lian Circular arc approximation by quintic polynomial curves. (English summary) **99f:41038**
Fasshauer, Gregory E. (*with* Schumaker, Larry L.) Scattered data fitting on the sphere. (English summary) **99d:41054**
Feng, Yu Yu (*with* Kozak, Jernej) On spline interpolation of space data. (English summary) **99e:41024**
Fiorot, Jean-Charles (*with* Jeannin, Pierre) Une nouvelle construction du polygone massique de contrôle d'une courbe spline rationnelle. (English and French summaries) [New control massic [global] polygon construction of a rational spline] **99e:41025**
Floater, Michael S. (*with* Iske, Armin) Thinning and approximation of large sets of scattered data. (English summary) (*see* **99f:41002**)
Gabrielides, N. C. *see* **Ginnis, Alexandros; et al., (99f:41002)**
Gasca, Mariano *see* **Carnicer, J. M., (99g:65002)**
Gevorgyan, O. V. (*with* Akopyan, A. A.; Sahakian, Artur A.) Numerical curves and their applications to algebraic curves. (English summary) (*see* **99f:41002**)
Ginnis, Alexandros (*with* Kaklis, Panagiotis D.; Gabrielides, N. C.) Sectional-curvature preserving skinning surfaces with a 3D spine curve. (English summary) (*see* **99f:41002**)
Gormaz, Raúl A class of multivariate de Boor-Fix formulae. (English summary) **99d:41055**
Gu, Chuan Qing Multivariate matrix rational interpolation based on generalized inverses. (Chinese. English summary)

Hamann, Bernd (*with* Jordan, Benjamin W.) Triangulations from repeated bisection. (English summary) **99d:41056**
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Huang, Li Bo *see* **Zhang, Yan Ying; et al.**
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Jeannin, Pierre *see* **Fiorot, Jean-Charles, 99e:41025**
Jetter, Kurt (*with* Zhou, Ding-Xuan) Seminorm and full norm order of linear approximation from shift-invariant spaces. (English summary) **99d:41057**
— (*with* Stöckler, Joachim; Ward, Joseph D.) Error estimates for scattered data interpolation on spheres. (English summary) **99i:41032**
— *see also* **Depczynski, Uwe,** (**99f:41002**)
Jia, Rong Qing The subdivision and transition operators associated with a refinement equation. (English summary) **99g:41042**
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Jüttler, Bert Convex surface fitting with parametric Bézier surfaces. (English summary) **99d:41058**
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Kilizhekov, Yu. A. Error of approximation by interpolation polynomials of the first degree on n-simplices. (Russian. Russian summary) **99a:41049**
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Kolushov, A. V. (*with* Yudin, Vladimir Aleksandrovich) Extremal dispositions of points on the sphere. (Russian summary) **99f:41039**
Kopteva, N. V. The two-dimensional Sobolev inequality in the case of an arbitrary grid. (Russian. Russian summary) **99c:41063**
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Mazure, Marie-Laurence (*with* Laurent, Pierre-Jean) Marsden identity, blossoming and de Boor-Fix formula. (English summary) **99f:41040**
Meek, D. S. (*with* Walton, D. J.) Planar G^1 Hermite interpolation with spirals. (English summary) **99f:41041**
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Zhang, Yan[5] A condition ensuring convexity of Bernstein-Bézier surfaces over $(n-1)$-hedra. (Chinese. English and Chinese summaries)
Zhao, Guohui (*with* Zheng, Chengde) B-spline functions of $s_3^2(\Delta_3)$ and $s_4^3(\Delta_3)$. (English and Chinese summaries)
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Zhou, Ding-Xuan *see* **Jia, Rong Qing; et al., 99f:39036**
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Zuo, Zheng (*with* Hu, Shi Min; Yuan, Bo; Sun, Jia Guang) A subdivision theorem for tensor product Bézier surfaces on a rectangular domain. (Chinese. English and Chinese summaries)

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Montecatini Terme ★ Advanced topics in multivariate approximation. **99f:41002**
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Multivariate Approximation and Interpolation ★ Advanced topics in multivariate approximation. **99f:41002**

41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

Al'brekht, P. V. On differentiable ε-selections. (Russian. Russian summary) **99h:41038**
Alimov, A. R. Solstice property for a system of 2-spaces. (English summary) **99d:41061**
Babaev, M.-B. A. Approximation of the Sobolev classes W_q^r of functions of several variables by bilinear forms in L_p for $2 \le q \le p \le \infty$. (Russian. Russian summary) **99c:41066**
Balaganskiĭ, V. S. Antiproximinal sets in spaces of continuous functions. (Russian. Russian summary) **99d:41062**
— On the closest and most remote points. (Russian) **99i:41033**
Berens, Hubert (*with* Finzel, Martina; Li, Wu[3]; Xu, Yuan[1]) Hoffman's error bounds and uniform Lipschitz continuity of best l_p-approximations. (English summary) **99e:41026**
Bhaskaramurthi, T. L. *see* **Rao, Geetha S., 99c:41070**
de Blasi, Francesco S. (*with* Myjak, Józef) On a generalized best approximation problem. (English summary) **99i:41034**
Carbone, Antonio A note on application of best approximation. (English summary)
Chen, Xiao Qun *see* **Chen, Zhi Bing; et al., 99m:41052**
Chen, Zhi Bing (*with* Xi, Mei Cheng; Chen, Xiao Qun; Zhang, Ming[6]; Feng, Yu Yu) The blossoming method for studying the dimension of a bivariate spline space. (Chinese. English and Chinese summaries) **99m:41052**
Cianchi, Andrea (*with* Stroffolini, Bianca) An extension of Hedberg's convolution inequality and applications. **99j:41056**
Ciesielski, Zbigniew (*with* Kamont, Anna) Projections onto piecewise linear functions. (English summary) **99b:41024**
Cobzaş, Ştefan (*with* Mustăţa, Costică) Extension of bilinear operators and best approximation in 2-normed spaces. **99d:41063**
Danilov, L. I. On the uniform approximation of a function that is almost periodic in the sense of Stepanov. (Russian) **99k:41053**
Ding, Xie Ping (*with* He, Yi Ran) Best approximation theorem for set-valued mappings without convex values and continuity. (Chinese. English and Chinese summaries)
Dragomir, Sever Silvestru (*with* Mabizela, Sizwe) Functional inequalities and best approximation. (English summary) **99h:41039**
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Goh, Say Song (*with* Lee, Seng Luan; Shen, Zuowei; Tang, Wai-Shing) Multilevel projections on spaces of periodic functions. (English summary) (*see* **99g:00046**)
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Leonov, N. N. ε-entropy of sets in ultrametric spaces. (Russian. English and Russian summaries) **99i:41036**
Li, Chong[1] (*with* Watson, G. Alistair) Best simultaneous approximation of an infinite set of functions. (English summary) **99j:41057**
— (*with* Wang, Xing Hua; Yang, Wen Shan) An estimate for Lipschitz constants of metric projections. (English summary) **99m:41053**
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Lodha, Suresh Kumar (*with* Goldman, Ron N.) Lattices and algorithms for bivariate Bernstein, Lagrange, Newton, and other related polynomial bases based on duality between L-bases and B-bases. (English summary) **99c:41067**

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— (*with* Neamtu, Marian) Interpolation and approximation from convex sets. (English summary) **99a:41052**
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Ni, Ren Xing (*with* Li, Chong[1]) Differentiability of farthest functions and existence of farthest points. (Chinese. English and Chinese summaries) **99c:41068**
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Păltineanu, Gavril On a denseness theorem for a set of continuous functions taking values in the interval $I = [0, 1]$. (Romanian. French and Romanian summaries)
— (*with* Vuza, Dan Tudor) A generalisation of the Bishop approximation theorem for locally convex lattices of (AM)-type. **99h:41040**
Pérez-González, Fernando[2] *see* **Khavinson, Dmitry; et al., 99d:41064**
Perronnet, Alain Interpolation transfinie sur le triangle, le tetraèdre et le pentaèdre. Application à la création de maillages et à la condition de Dirichlet. (English and French summaries) [Transfinite interpolation on the triangle, tetrahedron and pentahedron. Application to mesh generation and the Dirichlet condition] **99g:41045**
Postolică, Vasile Best approximation in H-locally convex spaces. (English summary) **99f:41045**
Rao, Geetha S. (*with* Bhaskaramurthi, T. L.) Chebyshev centers proximinality and farthest points in strong normed almost linear spaces. (English summary) **99c:41070**
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Wu, Garidi Approximation by entire functions of exponential type in Orlicz spaces. (Chinese. English and Chinese summaries) **99k:41054**
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Xu, Shu-Sheng Successive approximate algorithm for best approximation from a polyhedron. (English summary) **99c:41072**
Xu, Yuan[1] *see* **Berens, Hubert; et al., 99e:41026**
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Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) Kolmogorov-type inequalities and the approximation of functional classes. (Russian. English summary) **99m:41018**
Balaganskiĭ, V. S. On smooth antiproximal sets. (Russian) **99d:46035**
Beg, Ismat Approximation in random normed spaces. (English summary) **99a:46138**
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— (*with* Shahzad, Naseer) Some random approximation theorems with applications. **99k:47180**
Berdyshev, V. I. Approximation by generalized polynomials that ensures the best route. (Russian. Russian summary) **99f:41025**
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Bobrowski, Adam On the Yosida approximation and the Widder-Arendt representation theorem. (English summary) **99b:47058**
Bobrowski, Dobiesław A. On the approximation of positive sequence. (English summary) **99a:41047**
Caetano, António M. About approximation numbers in function spaces. (English summary) **99g:46041**
Cárdenas-Morales, Daniel *see* **Muñoz-Delgado, Francisco-Javier; et al., 99f:41032**
Cepedello Boiso, Manuel Approximation of Lipschitz functions by Δ-convex functions in Banach spaces. (English summary) **99j:46016**
— On regularization in superreflexive Banach spaces by infimal convolution formulas. (English summary) **99b:46117**
Chen, Guang Rong (*with* Zhao, Tian Yu) Jackson's theorem and related problems in some function spaces. (Chinese. English and Chinese summaries) **99a:41005**
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Cuenya, Héctor (*with* Marano, Miguel) A minimizing property that characterizes L_p-spaces. (English summary) **99a:46045**
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— (*with* Cho, Yeol Je; Kim, Seong Sik) Best approximation sets in linear 2-normed spaces. (English summary) **99j:46003**
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Fu, Wantao (*with* Cheng, Yonghong) On the strict efficiency in a locally convex space. (English summary) **99k:90143**
Gal, Sorin G. Fuzzy variant of the Stone-Weierstrass approximation theorem. **99d:46102**
Gavrilyuk, Ivan P. Grid approximations of the pseudospectral type with an improved condition number for second-order differential operators. (English summary) **99a:65087**
Goh, Say Song (*with* Lee, Seng Luan; Shen, Zuowei; Tang, Wai-Shing) Construction of Schauder decomposition on Banach spaces of periodic functions. (English summary) **99b:46033**
Gonska, Heinz H. *see* **Kacsó, Daniela P., 99m:41029**
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Guo, Shun Sheng (*with* Qi, Qiu Lan) On the simultaneous approximation of functions and their derivatives by the gamma operators. (English summary) **99g:41025**
Halic, Gheorghe On the best local approximation of a function. (English and Romanian summaries) (*see* **99i:00027**)
Han, Yong Sheng[1] Plancherel-Pólya type inequality and its applications. (English summary) **99d:46049**
Hiriart-Urruty, Jean-Baptiste Ensembles de Tchebychev vs. ensembles convexes: l'état de la situation vu via l'analyse convexe non lisse. (English and French summaries) [Chebyshev sets vs. convex sets: the situation from the perspective of convex nonsmooth analysis] **99f:49018**
Hudzik, Henryk (*with* Kurc, W.) Monotonicity properties of Musielak-Orlicz spaces and dominated best approximation in Banach lattices. (English summary) **99k:46044**
Kacsó, Daniela P. (*with* Gonska, Heinz H.) Simultaneous approximation by Birkhoff interpolators. **99m:41029**
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Karakuş, Yusuf Best simultaneous L_p approximations. (English summary) **99d:41032**
Karlov, M. I. Chebyshev layer of manifolds in a Hilbert space. (Russian) **99k:41047**
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Kotochigov, A. M. (*with* Shirokov, N. A.) Interpolation in a neighborhood of a cusp point. (Russian. Russian summary) **99m:41041**
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Le Gruyer, E. (*with* Archer, J. C.) Harmonious extensions. (English summary) **99d:54008**
Li, Chong[1] (*with* Wang, Xing Hua; Yang, Wen Shan) Lipschitz constants of metric projections. (Chinese. Chinese summary)
Lipieta, Agnieszka Cominimal projections in l_∞^n. (English summary) **99k:41044**
Liskowski, Marian (*with* Musielak, Julian) On best approximation in modular spaces. (English summary) **99a:46014**
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Lu, Li[2] (*with* Wang, Neng Chao) Completeness and orthogonality of Walsh-Haar function families. (Chinese. English and Chinese summaries)
Mabizela, Sizwe Weak Chebyshev subspaces and continuous selections for parametric projections. (English summary) **99b:41020**
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Mazzone, Fernando On the norm of the metric projections. (English summary) **99m:46038**
Mendoza, José Proximinality in $L_p(\mu, X)$. (English summary) **99b:46053**
Molnár, Lajos Characterization of additive $*$-homomorphisms and Jordan $*$-homomorphisms on operator ideals. (English summary) **99m:47042**
Muñoz-Delgado, Francisco-Javier (*with* Ramírez González, Victoriano; Cárdenas-Morales, Daniel) Qualitative Korovkin-type results on conservative approximation. (English summary) **99f:41032**
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Narang, T. D. Characterizations of elements of best approximation and ε-approximation in non-Archimedean normed spaces. **99a:46137**
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Ni, Ren Xing A conjecture of Simon Fitzpatrick. (Chinese. English and Chinese summaries) **99m:46039**
— Uniqueness of simultaneous farthest points in normed linear spaces. (Chinese. English summary) **99h:46018**
Nishishiraho, Toshihiko Korovkin sets and mean ergodic theorems. (English summary) **99j:41040**
O'Regan, Donal Nonlinear operator approximation theory. (English summary) **99e:47086**
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Partington, Jonathan R. ★ Interpolation, identification, and sampling. **99m:41001**

Pathak, H. K. (*with* Cho, Yeol Je; Kang, Shin Min) An application of fixed point theorems in best approximation theory. (English summary) **99d:47055**
Penot, Jean-Paul (*with* Ratsimahalo, Robert) Uniform continuity of projection mappings in Banach spaces. (English summary) **99m:46040**
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Precupanu, Anca-Maria A convexity condition for the nonexistence of some antiproximinal sets in the space of integrable functions. (English summary) **99g:90159**
Prolla, João B. (*with* Navarro, Samuel) Approximation results in the strict topology. (English summary) **99a:46068**
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Sevy, J. C. Acceleration of convergence of sequences of multivariate simultaneous approximants. (English summary) **99h:41028**
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Sheng, Baohuai (*with* Chen, Guang Rong) Approximation of modified Lagrange interpolation in Orlicz spaces. (English summary) **99h:42016**
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Singer, Ivan Duality for optimization and best approximation over finite intersections. (English summary) **99j:49075**
Singh, Sankatha Prasad (*with* Watson, Bruce B.; Srivastava, Pramila) ★ Fixed point theory and best approximation: the KKM-map principle. (English summary) **99a:47087**
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Temlyakov, V. N. The best m-term approximation and greedy algorithms. (English summary) **99f:41037**
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Wang, Cheng Yong Asymptotic estimates of the average errors of best uniform approximation on the Wiener space. (Chinese. Chinese summary) **99d:41043**
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Xu, Shu-Sheng On characterization of best approximation with certain constraints. (English summary) **99f:41024**
Yang, Wen Shan *see* **Li, Chong[1]; et al.**
Ye, Pei Xin (*with* Liu, Qing Guo) Korovkin systems in spaces of set-valued functions. (Chinese. English and Chinese summaries) **99j:41044**
Zajíček, Luděk On differentiability properties of Lipschitz functions on a Banach space with a Lipschitz uniformly Gâteaux differentiable bump function. (English summary) **99b:46066**
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Zhan, Da Peng Isometric approximation problems from finite-dimensional normed spaces into $C(\Omega)$. (Chinese. English and Chinese summaries) **99a:47027**
— Isometric approximation from a two-dimensional Banach space into $L^1(\Omega, \mu)$. (Chinese. English and Chinese summaries) **99j:46023**
Zhao, Tian Yu *see* **Chen, Guang Rong, 99a:41005**

41A80 Remainders in approximation formulas

Diethelm, Kai A fractional version of the Peano-Sard theorem. (English summary) **99b:41025**
Stancu, Dimitrie D. Representation of remainders in approximation formulae by some discrete type linear positive operators. (English summary) **99f:41047**

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Sayas, Francisco Javier A generalized Euler-Maclaurin formula on triangles. (English summary) **99j:65004**
Stancu, Dimitrie D. A note on the remainder in a polynomial approximation formula. (English summary) **99e:41006**

41A99 Miscellaneous topics

Items with secondary classifications in 41A99

Deift, P. (*with* Kriecherbauer, Thomas; McLaughlin, K. T.-R.) New results for the asymptotics of orthogonal polynomials and related problems via the Lax-Levermore method. (English summary) **99c:31006**
Goodman, Tim N. T. Total positivity and total variation. (English summary) **99f:15030**
Jean, Frédéric (*with* Koseleff, Pierre-Vincent) Elementary approximation of exponentials of Lie polynomials. (English summary) **99e:17041**
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Moukamba, Fidèle Elements of anisotropically and approximately differentiable functions theory. (English summary) **99m:41049**
Wallner, Johannes Generalized multiresolution analysis for arc splines. (English summary) **99e:65013**
Wang, Yu Wen *see* **Liu, Yi[1]; et al.**
Zhang, Hong *see* **Liu, Yi[1]; et al.**

42–XX Fourier analysis

González, Genaro Fourier series, Fourier transforms and applications. (English and Spanish summaries)

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bhatia, Rajendra ★ Fourier series. (English summary) **99f:42001**
Ramanathan, Jayakumar ★ Methods of applied Fourier analysis. (English summary) **99h:42001**
Walker, James Stephan ★ A primer on wavelets and their scientific applications. (English summary) **99m:42001**

Items with secondary classifications in 42–01

Blatter, Christian ★ Wavelets—eine Einführung. (German. German summary) [Wavelets—a primer] **99f:42062a**
— ★ Wavelets. (English summary) **99f:42062b**
Müller-Wichards, Dieter ★ Transformationen und Signale. (German. German summary) [Transformations and signals] **99m:94013**
(Pierzchalski, Antoni) *see* **Rudin, Walter, 99g:00008**
Rudin, Walter ★ Analiza rzeczywista i zespolona. (Polish. Polish summary) [Real and complex analysis] **99g:00008**
(Walczak, Paweł) *see* **Rudin, Walter, 99g:00008**

42–02 Research exposition (monographs, survey articles)

Cialdea, A. The brothers Riesz theorem: complex and real versions. **99h:42002**
Gasquet, C. (*with* Witomski, P.) ★ Fourier analysis and applications. (English summary) **99h:42003**
Jerri, Abdul J. ★ The Gibbs phenomenon in Fourier analysis, splines and wavelet approximations. (English summary) **99i:42001**
(Ryan, Robert D.) *see* **Gasquet, C., 99h:42003**
Sjögren, Peter Operators associated with the Hermite semigroup—a survey. **99e:42001**
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Alfaro, Manuel (*with* Marcellán, Francisco) Carathéodory functions and orthogonal polynomials on the unit circle. (English summary) **99i:42034**
De Michele, L. (*with* Roux, Delfina) The Gibbs phenomenon for multiple Fourier integrals and series: restriction theorems. (English summary) **99i:42015**
Favier, S. J. (*with* Zalik, Richard A.) Frames and Riesz bases. (English summary) **99d:42058**
Goffman, Casper (*with* Nishiura, Togo; Waterman, Daniel) ★ Homeomorphisms in analysis. (English summary) **99b:26002**
Härdle, Wolfgang (*with* Kerkyacharian, Gérard; Picard, Dominique; Tsybakov, A. B.) ★ Wavelets, approximation, and statistical applications. (English summary) **99f:42065**
Kerkyacharian, Gérard *see* **Härdle, Wolfgang; et al., 99f:42065**
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Meyer, Yves ★ Wavelets, vibrations and scalings. **99i:42051**
Nishiura, Togo *see* **Goffman, Casper; et al., 99b:26002**
Picard, Dominique *see* **Härdle, Wolfgang; et al., 99f:42065**
Roux, Delfina *see* **De Michele, L., 99i:42015**
Tsybakov, A. B. *see* **Härdle, Wolfgang; et al., 99f:42065**
Walker, James Stephan ★ A primer on wavelets and their scientific applications. (English summary) **99m:42001**
Waterman, Daniel *see* **Goffman, Casper; et al., 99b:26002**
Wickerhauser, Mladen Victor A primer on wavelet theory and its applications. (*see* **99h:00028**)
Wolff, Thomas Maximal averages and packing of one-dimensional sets. (English summary) **99g:42026**
Zalik, Richard A. *see* **Favier, S. J., 99d:42058**

42–03 Historical (must also be assigned at least one classification number from Section 01)

(Calderón, Alberto Pedro) *see* **Stein, Elias M., 99f:42002**
Stein, Elias M. Singular integrals: the roles of Calderón and Zygmund. **99f:42002**
(Zygmund, Antoni) *see* **Stein, Elias M., 99f:42002**

42–06 Proceedings, conferences, collections, etc.

(Lau, Ka-Sing) *see* **Advances in wavelets, 99m:42002**

Items listed otherwise than by author

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Hong Kong ★ Advances in wavelets. **99m:42002**

Items with secondary classifications in 42–06

(Ahmad, Z. U.) *see* **Fourier analysis, approximation theory and applications, 99d:00019**
(Anderson, James Milne) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Deslauriers, Gilles) *see* **Spline functions and the theory of wavelets, 99i:65005**
(Dubuc, Serge) *see* **Spline functions and the theory of wavelets, 99i:65005**
(Govil, Narendra K.) *see* **Fourier analysis, approximation theory and applications, 99d:00019**
(Jain, Pawan Kumar) *see* **Fourier analysis, approximation theory and applications, 99d:00019**
(Litvinov, G. L.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Ross, Kenneth Allen) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Schwartz, Alan L.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Singh, A. I.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Sunada, Toshikazu) *see* **Functional analysis and global analysis, 99g:00040**
(Sunder, V. S.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Sy, Polly Wee) *see* **Functional analysis and global analysis, 99g:00040**
(Walter, Martin E.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Wildberger, N. J.) *see* **Harmonic analysis and hypergroups, 99a:43001**

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Aligarh ★ Fourier analysis, approximation theory and applications. **99d:00019**
Conference:
Fourier Analysis, Approximation Theory and their Applications ★ Fourier analysis, approximation theory and applications. **99d:00019**
Functional Analysis and Global Analysis ★ Functional analysis and global analysis. **99g:00040**
Harmonic Analysis ★ Harmonic analysis and hypergroups. **99a:43001**
Delhi ★ Harmonic analysis and hypergroups. **99a:43001**
Fourier analysis, approximation theory and applications ★ Fourier analysis, approximation theory and applications. **99d:00019**
Functional analysis and global analysis ★ Functional analysis and global analysis. **99g:00040**
Harmonic analysis and hypergroups ★ Harmonic analysis and hypergroups. **99a:43001**
Montreal, PQ ★ Spline functions and the theory of wavelets. **99i:65005**
Quezon City ★ Functional analysis and global analysis. **99g:00040**
Spline functions and the theory of wavelets ★ Spline functions and the theory of wavelets. **99i:65005**
Workshop:
Spline Functions and the Theory of Wavelets ★ Spline functions and the theory of wavelets. **99i:65005**

42Axx Fourier analysis in one variable

Items with secondary classifications in 42Axx

Gasquet, C. (*with* Witomski, P.) ★ Fourier analysis and applications. (English summary) **99h:42003**
(Ryan, Robert D.) *see* **Gasquet, C., 99h:42003**
Witomski, P. *see* **Gasquet, C., 99h:42003**

42A05 Trigonometric polynomials, inequalities, extremal problems

Ash, J. Marshall (*with* Ganzburg, Michael I.) An extremal problem for trigonometric polynomials. (English summary) **99b:42001**
Belov, A. S. (*with* Konyagin, Sergeĭ) On an estimate for the free term of a nonnegative trigonometric polynomial with integer coefficients. (Russian. Russian summary) **99b:42002**
Brown, Gavin[1] (*with* Koumandos, Stamatis) A new bound for the Fejér-Jackson sum. (English summary) **99f:42003**
Ganzburg, Michael I. *see* **Ash, J. Marshall, 99b:42001**
Grigor'ev, P. G. On a sequence of trigonometric polynomials. (Russian) **99f:42004**
Joung, Haewon Large sieve for generalized trigonometric polynomials. (English summary) **99k:42001**
Kashin, B. S. On the possibility of generalization of "correction" theorems. (Russian) **99i:42002**
Konyagin, Sergeĭ *see* **Belov, A. S., 99b:42002**
Koumandos, Stamatis *see* **Brown, Gavin[1], 99f:42003**
Papadopoulos, S. F. Minima of trigonometric polynomials. **99b:42003**
Runovskiĭ, K. V. (*with* Schmeisser, H. J.) On Marcinkiewicz-Zygmund type inequalities for irregular knots in L_p-spaces, $0 < p \leq +\infty$. (English summary) **99b:42004**
Schmeisser, H. J. *see* **Runovskiĭ, K. V., 99b:42004**
Stepanets, A. I. The rate of convergence of Fourier series on classes of $\overline{\psi}$-integrals. (Russian. English and Ukrainian summaries) **99e:42002**
Tabachnikov, S. L. On functions with zero mean with respect to a finite group. (Russian) **99a:42001**
Tsiklauri, Z. The classes of functions and (C, α) summability of a Fourier series according to the system of generalized spherical functions. (English summary)
Voronin, Sergeĭ Mikhaĭlovich On interpolation formulas. (Russian) **99j:42001**
Wu, Zong Min Generalized Bochner's theorem for radial function. (English summary) **99k:42002**
Yudin, Vladimir Aleksandrovich Location of points on a torus, and extremal properties of polynomials. (Russian) **99k:42003**

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Arestov, Vitaliĭ V. Exact classical polynomial inequalities in H_p for $0 \leq p \leq \infty$. (English summary) **99g:26034**
Babenko, Vladislav F. Inequalities for norms of intermediate derivatives and some their applications. (English summary) **99d:26020**
Cheng, Raymond Some Banach spaces of vector valued functions and an extremal problem. (Russian summary) **99e:46047**
Demidov, A. S. *see* **Valiev, A. D., 99f:42006**
Gluchoff, Alan (*with* Hartmann, Frederick) Univalent polynomials and non-negative trigonometric sums. **99i:30008**
Goodman, Tim N. T. Pairs of refinable bivariate splines. (English summary) **99g:41009**
Hartmann, Frederick *see* **Gluchoff, Alan, 99i:30008**
Nursultanov, E. D. On multipliers of Fourier series in a trigonometric system. (Russian. Russian summary) **99g:42014**
Runovskiĭ, K. V. (*with* Sickel, Winfried) Marcinkiewicz-Zygmund-type inequalities—trigonometric interpolation on non-uniform grids and unconditional Schauder bases in Besov spaces on the torus. (English summary) **99b:46047**
Schneider, Dominique Théorèmes ergodiques perturbés. (English summary) [Perturbed ergodic theorems] **99c:28056**
Sickel, Winfried *see* **Runovskiĭ, K. V., 99b:46047**

Soardi, Paolo M. Hölder regularity of compactly supported p-wavelets: $p = 3, 4, 5$. (English summary) **99d:42070**
Takahashi, Hidewo Fourier transforms of crystal structures. (Japanese)
Valiev, A. D. (*with* Demidov, A. S.) On nonnegative trigonometric polynomials with a fixed mean that pass through given points. (Russian) **99f:42006**
Wang, Jian Zhong[2] Stability and linear independence associated with scaling vectors. (English summary) **99c:42048**
Zalik, Richard A. Relative differentiation, Descartes' rule of signs, and the Budan-Fourier theorem for Markov systems. (English summary) **99d:41048**

42A10 Trigonometric approximation

Bakuridze, M. Some properties of Fourier trigonometric series of even and odd functions. (English summary)
Bitsadze, M. G. On some properties of multiple Cesàro means of multiple trigonometric series with special coefficients. (Russian. English and Georgian summaries)
Butzer, Paul Leo (*with* Lei, Junjiang) Errors in truncated sampling series with measured sampled values for not-necessarily bandlimited functions. (English summary) **99m:42003**
Chandra, Prem Degree of approximation of functions in the Hölder metric. (English summary) (*see* **99d:00019**)
Das, Gokulananda (*with* Ray, Braja Kishore) Degree of approximation in the Hölder metric by a new trigonometric method of summation. (English summary) **99m:42004**
Delvos, F.-J. Trigonometric approximation in multivariate periodic Hilbert spaces. (English summary) (*see* **99a:41001**)
Gogoladze, D. On the Carleman singularity. (English summary)
Gröchenig, Karlheinz Irregular sampling, Toeplitz matrices, and the approximation of entire functions of exponential type. (English summary) **99i:42003**
Il'yasov, N. A. On the direct theorem in the theory of approximations of periodic functions in different metrics. (Russian) **99i:42004**
Kornienko, A. A. On the Jackson theorem in the space with convergence in measure. (English summary) **99i:42005**
Kvernadze, George Determination of the jumps of a bounded function by its Fourier series. (English summary) **99m:42005**
Lei, Junjiang *see* **Butzer, Paul Leo, 99m:42003**
Leindler, László A condition of new type on Fourier coefficients makes the ratio $\|f - S_n(f)\|/E_n(f)$ bounded. (Russian summary) **99e:42003**
— Embedding results pertaining to strong approximation of Fourier series. I. (Russian summary) **99d:42001**
Leladze, D. On summability of multiple conjugate trigonometric series. (Russian and Georgian summaries)
Nacken, M. (*with* Nessel, R. J.; Röpsch, C.) On the approximation of Riemann integrable functions by Fejér means. (English summary) **99k:42004**
Nessel, R. J. (*with* Röpsch, C.) On the comparison of trigonometric convolution operators with their discrete analogues for Riemann integrable functions. (English summary) **99m:42006**
— *see also* **Nacken, M.; et al., 99k:42004**
Nguyễn Xuân Ký Moduli of mean smoothness and approximation with A_p-weights. **99d:42002**
Prestin, Jürgen (*with* Selig, Kathi) Interpolatory and orthonormal trigonometric wavelets. (English summary) **99f:42005**
Ray, Braja Kishore *see* **Das, Gokulananda, 99m:42004**
Röpsch, C. *see* **Nacken, M.; et al., 99k:42004** *and* **Nessel, R. J., 99m:42006**
Roszak, B. On the pointwise approximation by Borel and Euler means. (English summary) **99c:42001**
Selig, Kathi *see* **Prestin, Jürgen, 99f:42005**
Shirokov, N. A. Approximation by polynomials on compacta with infinitely connected complement. (Russian. Russian summary) **99j:42002**
Skhirtladze, N. Trigonometrical series with special coefficients. (English summary)
Taberski, Roman Approximation properties of some means of Fourier series. (English summary) **99k:42005**
Temlyakov, V. N. Greedy algorithm and m-term trigonometric approximation. (English summary) **99k:42006**
Tetunashvili, Sh. T. Uniqueness theorems for multiple trigonometric series. (Russian. English and Georgian summaries)

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Abdykalykov, A. D. (*with* Falaleev, L. P.) Euler and Riesz means of Fourier-Chebyshev series. (Russian. English, Russian and Kazakh summaries)
Amato, Umberto (*with* De Feis, Italia) Retrieving a function from Hermite-Fourier coefficients affected by noise. **99d:42009**
Bogalska, K. (*with* Gojtka, E.; Gurdek, M.; Rempulska, L.) The Picard and the Gauss-Weierstrass singular integrals of functions of two variables. (English summary) **99d:41030**
Borichev, A. A. (*with* Sodin, Mikhail) Density of polynomials and the Hamburger moment problem. (English and French summaries) **99e:41016**
De Feis, Italia *see* **Amato, Umberto, 99d:42009**
Dinh Dung Best multivariate approximations by hyperbolic trigonometric polynomials. (English summary) (*see* **99g:00046**)
Falaleev, L. P. *see* **Abdykalykov, A. D.**
Fu, Dong Sheng A parallel algorithm for the fast Fourier transform. (Chinese. English and Chinese summaries)
Gojtka, E. *see* **Bogalska, K.; et al., 99d:41030**
Gorbachëv, D. V. Construction of an extremal function for a functional on the class $H_\omega^{(n)}$. (Russian. Russian summary) **99e:42019**
Gurdek, M. *see* **Bogalska, K.; et al., 99d:41030**
Kostova, Violeta At. On a generalization of Jackson's theorem in $\mathbf{R}^m$. (English summary) **99k:41014**
Łenski, Włodzimierz (*with* Topolewska, Maria) On the rate of strong summability of double Fourier series. (English summary) **99m:42017**
Pérez Acosta, Francisco On a theorem of Bernstein and its applications to weighted minimax series. (English summary) **99k:41045**
Rempulska, L. *see* **Bogalska, K.; et al., 99d:41030**
van Rooij, Arnoud C. M. (*with* Ruymgaart, Frits H.) Convergence in the Hausdorff metric of estimators of irregular densities, using Fourier-Cesàro approximation. (English summary) **99m:62064**
Ruymgaart, Frits H. *see* **van Rooij, Arnoud C. M., 99m:62064**
Shim, Hong-Tae *see* **Walter, Gilbert G., 99k:42074**
Skhirtladze, N. Some properties of Belman's and Loo's transformations. (English summary)
Sodin, Mikhail *see* **Borichev, A. A., 99e:41016**
Stepanets, A. I. The rate of convergence of Fourier series on classes of $\overline{\varphi}$-integrals. (Russian. English and Ukrainian summaries) **99e:42002**
Syusyukalov, A. I. On the approximation of functions in the class $C(\varepsilon)$ using means of sequences of Fourier sums. (Russian)
Topolewska, Maria *see* **Łenski, Włodzimierz, 99m:42017**
Tsiklauri, Z. The classes of functions and (C, α) summability of a Fourier series according to the system of generalized spherical functions. (English summary)
Walker, James Stephan Fourier analysis and wavelet analysis. **99c:42003**
Walter, Gilbert G. (*with* Shim, Hong-Tae) Gibbs' phenomenon for sampling series and what to do about it. (English summary) **99k:42074**
Xia, Xiang-Gen Smooth local sinusoidal bases on two-dimensional L-shaped regions. (English summary) **99f:42071**

42A15 Trigonometric interpolation

Demidov, A. S. *see* **Valiev, A. D., 99f:42006**
Grebenchuk, H. The Fourier analysis and disclosing of the indefiniteness by decomposition on prolate spheroidal wave functions. (English summary)
Helmberg, Gilbert (*with* Wagner, Peter[2]) Manipulating Gibbs' phenomenon for Fourier interpolation. (English summary) **99d:42003**
Jin, Guo Xiang Hermite trigonometric interpolation. (Chinese. English and Chinese summaries) **99c:42002**
Lyubarskii, Yurii I. (*with* Seip, Kristian) Complete interpolating sequences for Paley-Wiener spaces and Muckenhoupt's (A_p) condition. (English summary) **99e:42004**
Seip, Kristian *see* **Lyubarskii, Yurii I., 99e:42004**
Valiev, A. D. (*with* Demidov, A. S.) On nonnegative trigonometric polynomials with a fixed mean that pass through given points. (Russian) **99f:42006**
Wagner, Peter[2] *see* **Helmberg, Gilbert, 99d:42003**

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Du, Jinyuan Quadrature formulas of quasi-interpolation type for singular integrals with Hilbert kernel. (English summary) **99e:41021**
Jakimovski, Amnon (*with* Sharma, Ambikeshwar) Hermite interpolation on Chebyshev nodes and Walsh equiconvergence. (English summary) **99f:41004**
Katsnelson, Victor E. Sampling and interpolation for functions with multi-band spectrum: the mean periodic continuation method. (English summary) **99g:94004**
Lyche, Tom (*with* Schumaker, Larry L.; Stanley, Sonya) Quasi-interpolants based on trigonometric splines. (English summary) **99i:41001**
Runovskiĭ, K. V. (*with* Sickel, Winfried) Marcinkiewicz-Zygmund-type inequalities—trigonometric interpolation on non-uniform grids and unconditional Schauder bases in Besov spaces on the torus. (English summary) **99b:46047**
Schumaker, Larry L. *see* **Lyche, Tom; et al., 99i:41001**
Sharma, Ambikeshwar *see* **Jakimovski, Amnon, 99f:41004**
Shen, Zuowei Refinable function vectors. (English summary) **99d:41038**
Sickel, Winfried *see* **Runovskiĭ, K. V., 99b:46047**
Stanley, Sonya *see* **Lyche, Tom; et al., 99i:41001**
Zimmermann, Georg Spectral synthesis with wavelet methods. (English summary) **99i:42059**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

Aasma, Ants Comparison of orders of approximation of Fourier expansions by different matrix methods. (English summary) **99f:42007**
Bernard, Alain (*with* Muraz, Gilbert L.) Locally constant almost everywhere Fourier transform. (*see* **99k:46003**)
De Zutter, Daniel *see* **Knockaert, Luc, 99h:42004**
Foulquié Moreno, Ana A note on summability conditions on Fourier coefficients. (English summary) **99f:42008**
Fridli, Sándor Integrability and L^1-convergence of trigonometric and Walsh series. (English summary) **99d:42004**
Galstyan, S. Sh. (*with* Ovsepyan, R. I.) Trigonometric series with rapidly decreasing coefficients. (Russian. Russian summary) **99d:42005**
Gao, Qian *see* **Tian, Jin Wen; et al.**
Huang, Jian Zhong[2] *see* **Tian, Jin Wen; et al.**
Il'in, Vladimir Aleksandrovich[1] One more generalization of the Bessel inequality and the Riesz-Fischer theorem for a Fourier series in a uniformly bounded orthonormal system. (Russian) **99j:42003**
Jijeishvili, L. On the order of decrease of Fourier coefficients. (English summary)
Kirillov, Sergei Aleksandrovich Some estimates for orthonormal systems from BMO. (English summary) **99f:42009**
Knockaert, Luc (*with* De Zutter, Daniel) An exponential truncation bound for analytic Fourier series. (English summary) **99h:42004**
Ma, Zhi Kao Generalized self-Fourier functions and their properties. (Chinese. English and Chinese summaries)
Móricz, Ferenc (*with* Németh, Zoltán[1]) On the order of magnitude of Fourier coefficients with respect to uniformly bounded orthonormal systems. (Russian summary) **99h:42005**

Muraz, Gilbert L. *see* **Bernard, Alain**, (99k:46003)
Németh, Zoltán[1] *see* **Móricz, Ferenc**, 99h:42005
Oskolkov, Konstantin I. Schrödinger equation and oscillatory Hilbert transforms of second degree. (English summary) **99j:42004**
Ovsepyan, R. I. *see* **Galstyan, S. Sh.**, 99d:42005
Snell, Michael R. An analogue to the Edgeworth-Esseen expansion. **99h:42006**
Tian, Jin Wen (*with* Gao, Qian; Huang, Jian Zhong[2]) The Bouligand dimension of some graphs based on wavelet series. (English and Chinese summaries)
Trigub, R. M. A generalization of the Euler-Maclaurin formula. (Russian) **99d:42006**
Walker, James Stephan Fourier analysis and wavelet analysis. **99c:42003**
Zeng, Da Cong Symmetric functions, antisymmetric functions and their Fourier coefficients. (Chinese. English and Chinese summaries)
Zhizhiashvili, L. V. On the solution of a problem of P. L. Ul′yanov. (Russian. English and Georgian summaries)

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Askey, Richard A new look at some old trigonometric expansions. (English summary) **99g:26018**
Belov, A. S. Order estimates for the modulus of variation of the sum of a lacunary trigonometric series. (Russian. Russian summary) **99m:42009**
Berisha, Faton M. On coincidence of classes of functions defined by the generalized modulus of smoothness and appropriate inverse theorem. (English summary) **99i:41021**
Chen, Chang-Pao (*with* Huang, Xin-Rong) Weighted integrability of double trigonometric series. (English summary) **99h:42019**
Duffin, Richard J. (*with* Weinberger, Hans F.) On dualizing a multivariable Poisson summation formula. (English summary) **99f:42023**
D'yachenko, M. I. Fourier coefficients of piecewise-monotone functions of several variables. (Russian. Russian summary) **99e:42018**
Huang, Xin-Rong *see* **Chen, Chang-Pao**, **99h:42019**
Inoue, Akihiko Abel-Tauber theorems for Fourier-Stieltjes coefficients. (English summary) **99a:40003**
Iooss, Gérard Sur une transformation conforme, utile dans le problème des ondes de gravité stationnaires. (English and French summaries) [On a conformal map that is useful in the problem of standing gravity waves] **99b:76010**
Keleti, Tamás Periodic Lip$^{\alpha}$ functions with Lip$^{\beta}$ difference functions. **99b:26004**
Kuznetsova, O. I. On a class of N-dimensional trigonometric series. (Russian. Russian summary) **99d:42014**
Papp, K. F. Lebesgue integrability theorems for multiple trigonometric series. **99d:42017**
Steidl, Gabriele A note on fast Fourier transforms for nonequispaced grids. (English summary) **99k:65118**
Stempak, Krzysztof A transplantation theorem for Fourier-Bessel coefficients. (English and Russian summaries) **99k:33036**
Telyakovskiĭ, S. A. Localization of integrability conditions for trigonometric series. (Russian) **99b:42009**
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Weitsman, Allen On the Fourier coefficients of homeomorphisms of the circle. **99h:31003**
Xia, Xiang-Gen Smooth local sinusoidal bases on two-dimensional L-shaped regions. (English summary) **99f:42071**

42A20 Convergence of Fourier and trigonometric series

Akhobadze, T. On some analogies of Cantor-Lebesgue theorem. (English summary)
Bokaev, N. A. On the absolute convergence of multiple series of Fourier coefficients in multiplicative systems. (Russian) **99e:42005**
Bukovský, Lev Trigonometric thin sets and γ-set. (*see* **99a:54002**)
Chandra, Prem Necessary conditions for the convergence of Lebesgue-Fourier series. (English and Russian summaries) **99g:42001**
Chen, Chang-Pao (*with* Chen, Yu-Ying) On the integrals of Riemann-Lebesgue type. (English summary) **99a:42002**
— (*with* Lin, Chin-Cheng) Integrability, mean convergence, and Parseval's formula for double trigonometric series. (English summary) **99d:42007**
Chen, Yu-Ying *see* **Chen, Chang-Pao**, **99a:42002**
Córdoba, Antonio (*with* Fernández, Pablo) Convergence and divergence of decreasing rearranged Fourier series. (English summary) **99e:42006**
Fernández, Pablo *see* **Córdoba, Antonio**, **99e:42006**
Fridli, Sándor On the L_1-convergence of Fourier series. (English summary) **99h:42007**
Goes, Günther Corrigenda to: "Generalizations of theorems of Fejér and Zygmund on convergence and boundedness of conjugate series" [Studia Math. **57** (1976), no. 3, 241–249; MR **55#** 963]. (English summary) **99c:42004**
Goginava, U. K. About uniform convergence and summability of Fourier-Walsh-Paley series. (English summary)
Kahane, Jean-Pierre Sommes partielles des séries de Fourier (d'après L. Carleson). [Partial sums of Fourier series (after L. Carleson)] (*see* **99f:00041**)
— A few generic properties of Fourier and Taylor series. (English summary) **99m:42007**
Karchava, T. On the absolute convergence of Fourier series. (English summary) **99c:42005**
Khabazi, M. On the boundedness and convergence of partial sums of Fourier series in the weighted Orlicz classes. (English summary)
Kita, Hiroō On maximal operator of partial sums of Fourier series in Orlicz spaces. **99b:42005**
Körner, Thomas William On the representation of functions by trigonometric series. (English summary) **99b:42006**
Leindler, László Remarks to a new result of P. L. Ul′yanov. (English and Russian summaries) **99c:42006**
Lin, Chin-Cheng *see* **Chen, Chang-Pao**, **99d:42007**
Marshall, S. L. On the analytical summation of Fourier series and its relation to the asymptotic behaviour of Fourier transforms. (English summary) **99j:42005**
Pierce, Pamela B. (*with* Waterman, Daniel) Regulated functions whose Fourier series converge for every change of variable. (English summary) **99j:42006**
Sedletskiĭ, A. M. Fourier transform of rapidly decreasing functions. (Russian. Russian summary) **99e:42007**
Sharapudinov, I. I. (*with* Vagabov, I. A.) On the convergence of de la Vallée-Poussin means for Fourier-Jacobi sums. (Russian. Russian summary) **99f:42010**
Vagabov, I. A. *see* **Sharapudinov, I. I.**, **99f:42010**
Waterman, Daniel *see* **Pierce, Pamela B.**, **99j:42006**
Živorad, Tomovski Convergence and integrability of cosine trigonometric sums with quasi-convex coefficients. (English and Macedonian summaries) **99g:42002**

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Chandra, Prem Degree of approximation of functions in the Hölder metric. (English summary) (*see* **99d:00019**)
Koumandos, Stamatis Monotonic trigonometric sums and coefficients of Bloch functions. (English summary) **99j:30037**
Telyakovskiĭ, S. A. (*with* Temlyakov, V. N.) On the convergence of Fourier series of functions of several variables of bounded variation. (Russian. Russian summary) **99e:42020**
Temlyakov, V. N. *see* **Telyakovskiĭ, S. A.**, **99e:42020**
Trigub, R. M. A generalization of the Euler-Maclaurin formula. (Russian) **99d:42006**

42A24 Summability of Fourier and trigonometric series

Akhobadze, T. On the summability of multiple trigonometric series by the Bochner-Riesz method. (English summary)
Ambroladze, Amiran On the spherical convergence of multiple series. (Russian. English and Georgian summaries)
Bhatt, S. K. (*with* Kathal, P. D.) The $(C, 1)$ $(E, 1)$ summability of a Fourier series and its conjugate series.
Bitsadze, K. On divergence of Fourier series with respect to multiplicative systems on the sets of measure zero. (Russian and Georgian summaries)
Bor, Hüseyin On the local property of factored Fourier series. (English summary) **99f:42011**
D'Antonio, Lawrence A. (*with* Waterman, Daniel) A summability method for Fourier series of functions of generalized bounded variation. (English summary) **99h:42008**
Das, Gokulananda (*with* Ojha, Akshay Kumar; Ray, Braja Kishore) Degree of approximation of functions associated with Hardy-Littlewood series in the generalized Hölder metric. (English summary) **99h:42009**
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42A45 Multipliers

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42A50 Conjugate functions, conjugate series, singular integrals

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42A55 Lacunary series of trigonometric and other functions; Riesz products

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42A61 Probabilistic methods

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42A65 Completeness of sets of functions

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42A70 Trigonometric moment problems

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42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Adamczak, Marek $C^{(n)}$-almost periodic functions. (English summary) **99e:42015**
Andersen, Nils Byrial Invariant fundamental solutions and solvability for symmetric spaces of type G_C/G_R with only one conjugacy class of Cartan subspaces. **99j:42011**
Berger, M. S. A fundamental result of quasi-periodic functions of several variables and the ergodic theorem. (English summary) **99g:42008**
Cioranescu, Ioana Riesz-Fisher type results for Besicovitch almost periodic functions. **99h:42018**
Danilov, L. I. Measure-valued almost periodic functions and almost periodic selections of multivalued mappings. (Russian. Russian summary) **99e:42016**
— Measure-valued almost periodic functions. (Russian. Russian summary) **99c:42007**
Favorov, S. Yu. (*with* Rashkovskiĭ, A. Yu.; Ronkin, L. I.) Almost periodic divisors in a strip. (English summary) **99k:42016**
Fischer, Alexander Approximation of almost periodic functions by periodic ones. (English summary) **99f:42020**
Malgrange, Bernard Fonctions moyenne-périodiques (d'après J.-P. Kahane). [Mean-periodic functions (after J.-P. Kahane)] (*see* **99f:00034**)
Pankov, A. A. Almost periodic functions, Bohr compactification, and differential equations. (English summary) **99i:42014**
Rashkovskiĭ, A. Yu. *see* **Favorov, S. Yu.; et al., 99k:42016**
Ronkin, L. I. *see* **Favorov, S. Yu.; et al., 99k:42016**
Ryabinin, A. A. On the mean-periodic continuation problem. (Russian) **99m:42014**
Stoiński, Stanisław A note on the derivative and approximation of almost periodic functions. (English summary) **99c:42008**
— On compactness of some classes of almost periodic functions. (English summary) **99m:42015**
Tanaka, Jun-ichi Extensions of almost periodic functions and Hardy spaces. (Japanese) (*see* **99i:00018**)

Items with secondary classifications in 42A75

Ball, Joseph A. (*with* Karlovich, Yu. I.; Rodman, Leiba; Spitkovsky, Ilya M.) Sarason interpolation and Toeplitz corona theorem for almost periodic matrix functions. (English summary) **99k:47033**
Bastos, M. A. (*with* Karlovich, Yu. I.; Spitkovsky, Ilya M.; Tishin, P. M.) On a new algorithm for almost periodic factorization. (English summary) **99g:47034**
Bersani, A. M. *see* **Iannacci, R.; et al., 99e:46041**
Danilov, L. I. On the uniform approximation of a function that is almost periodic in the sense of Stepanov. (Russian) **99k:41053**
Dell'Acqua, G. *see* **Iannacci, R.; et al., 99e:46041**
Heil, Christopher The Wiener transform on the Besicovitch spaces. (English summary) **99j:42007**
Iannacci, R. (*with* Bersani, A. M.; Dell'Acqua, G.; Santucci, P.) Embedding theorems for Sobolev-Besicovitch spaces of almost periodic functions. (English summary) **99e:46041**
Karlovich, Yu. I. *see* **Bastos, M. A.; et al., 99g:47034** *and* **Ball, Joseph A.; et al., 99k:47033**
Li, Bin *see* **Zhang, Xing You, 99m:49020**
Okada, Tatsuya (*with* Sekiguchi, Takeshi; Shiota, Yasunobu) Multifractal spectrum of multinomial measures. **99c:28027**
Prigarin, S. M. On the interpolation of positive definite functions and stationary random sequences. (English summary)
Quint, Daniel (*with* Rodman, Leiba; Spitkovsky, Ilya M.) New cases of almost periodic factorization of triangular matrix functions. **99c:47020**
Rodman, Leiba *see* **Quint, Daniel; et al., 99c:47020** *and* **Ball, Joseph A.; et al., 99k:47033**
Santucci, P. *see* **Iannacci, R.; et al., 99e:46041**
Sekiguchi, Takeshi *see* **Okada, Tatsuya; et al., 99c:28027**
Shiota, Yasunobu *see* **Okada, Tatsuya; et al., 99c:28027**
Spitkovsky, Ilya M. *see* **Quint, Daniel; et al., 99c:47020; Bastos, M. A.; et al., 99g:47034** *and* **Ball, Joseph A.; et al., 99k:47033**
Tishin, P. M. *see* **Bastos, M. A.; et al., 99g:47034**
Zhang, Xing You (*with* Li, Bin) Remarks on the expression of the Γ-limits of a class of functionals. (Chinese. English and Chinese summaries) **99m:49020**

42A82 Positive definite functions

Becker, M. B. On integral representation of the continuous $O(n)$-positive definite functions. (English summary) **99d:42013**
Bisgaard, Torben Maack (*with* Sasvári, Zoltán) On the positive definiteness of certain functions. (English summary) **99c:42009**
Bruzual, Ramón Representation of measurable positive definite generalized Toeplitz kernels in **R**. (English summary) **99c:42010**
Pevnyĭ, A. B. Positive-definite functions and multidimensional interpolation. (Russian) (*see* **99a:00016**)
Sasvári, Zoltán *see* **Bisgaard, Torben Maack, 99c:42009**
Zastavnyĭ, V. P. Some properties of a class of radial positive-definite functions. (Russian) (*see* **99a:00016**)

Items with secondary classifications in 42A82

Gneiting, Tilmann On the uncertainty relation for positive definite probability densities. (English summary) **99b:60019**
Gorbachuk, M. L. (*with* Gorbachuk, V. I.) ★ M. G. Krein's lectures on entire operators. (English summary) **99f:47001**
Gorbachuk, V. I. *see* **Gorbachuk, M. L., 99f:47001**
(Kreĭn, Mark Grigor'evich) *see* **Gorbachuk, M. L., 99f:47001**
Sakhnovich, L. A. ★ Interpolation theory and its applications. (English summary) **99j:47016**

42A85 Convolution, factorization

Barthe, Franck Optimal Young's inequality and its converse: a simple proof. (English summary) **99f:42021**
De Michele, L. (*with* Roux, Delfina) Approximate units and Gibbs phenomenon. (Italian summary) **99c:42011**
Roux, Delfina *see* **De Michele, L., 99c:42011**

Items with secondary classifications in 42A85

Arregui Casaus, José Luis (*with* Blasco, Oscar) On the Bloch space and convolution of functions in the L^p-valued case. (English summary) **99b:46049**
Blasco, Oscar *see* **Arregui Casaus, José Luis, 99b:46049**
Cooper, Michael J. P. Dimension, measure and infinite Bernoulli convolutions. **99h:28013**
Cruz-Uribe, David (*with* Neugebauer, C. J.; Olesen, V.) Weighted norm inequalities for a family of one-sided minimal operators. **99b:42021**
Neugebauer, C. J. *see* **Cruz-Uribe, David; et al., 99b:42021**
Olesen, V. *see* **Cruz-Uribe, David; et al., 99b:42021**

42A99 None of the above, but in this section

Items with secondary classifications in 42A99

Kilgore, Theodore An inequality relating algebraic and trigonometric derivatives. (English summary) **99b:26028**
Li, Xin Min Uniform bounds for sampling expansions. (English summary) **99h:94019**
Zhang, Shu Nian Almost periodic solutions of difference systems. (English summary) **99m:39015**

42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

Items with secondary classifications in 42Bxx

Jorgensen, Palle E. T. (*with* Pedersen, Steen) Local harmonic analysis for domains in $\mathbf{R}^n$ of finite measure. (English summary) **99k:46039**
Pedersen, Steen *see* **Jorgensen, Palle E. T., 99k:46039**

42B05 Fourier series and coefficients

Bakhvalov, A. N. On the divergence everywhere of Fourier series of continuous functions of several variables. (Russian. Russian summary) **99a:42006**
Bitsadze, K. On divergence of multiple Fourier-Haar series of bounded function of several variables on zero measure set. (English summary)
Bourgain, Jean Analysis results and problems related to lattice points on surfaces. (English summary) **99c:42012**
Brown, Gavin[1] (*with* Wang, Kun Yang[1]) On a conjecture of F. Móricz. (English summary) **99b:42015**
Chen, Chang-Pao (*with* Huang, Xin-Rong) Weighted integrability of double trigonometric series. (English summary) **99h:42019**
Cialdea, A. The brothers Riesz theorem in $\mathbf{R}^n$ and Laplace series. (English and Georgian summaries) **99f:42022**
Duffin, Richard J. (*with* Weinberger, Hans F.) On dualizing a multivariable Poisson summation formula. (English summary) **99f:42023**
D'yachenko, M. I. U-convergence of almost everywhere double Fourier series. (Russian. Russian summary) **99e:42017**
— Spherical partial sums of double Fourier series of functions with bounded generalized variation. (Russian. Russian summary) **99c:42013**
— Fourier coefficients of piecewise-monotone functions of several variables. (Russian. Russian summary) **99e:42018**

Gorbachëv, D. V. Construction of an extremal function for a functional on the class $H_\omega^{(n)}$. (Russian. Russian summary) **99e:42019**
Huang, Xin-Rong *see* **Chen, Chang-Pao**, **99h:42019**
Kita, Hiroō On interpolation of the Fourier maximal operator in Orlicz spaces. (English summary) **99j:42012**
Kuznetsova, O. I. On a class of N-dimensional trigonometric series. (Russian. Russian summary) **99d:42014**
Nursultanov, E. D. Interpolation properties of some anisotropic spaces and Hardy-Littlewood type inequalities. (English summary) **99g:42009**
— Network spaces and inequalities of Hardy-Littlewood type. (Russian. Russian summary) **99d:42015**
Okulov, V. A. A multidimensional analogue of a theorem of Zygmund. (Russian. Russian summary) **99d:42016**
Papp, K. F. Lebesgue integrability theorems for multiple trigonometric series. **99d:42017**
Stokolos, A. M. (*with* Trebels, W.) On the rate of almost everywhere convergence of Abel-Cartwright means on $L^p(\mathbf{R}^n)$. (English summary) **99k:42017**
Telyakovskiĭ, S. A. (*with* Temlyakov, V. N.) On the convergence of Fourier series of functions of several variables of bounded variation. (Russian. Russian summary) **99e:42020**
Temlyakov, V. N. *see* **Telyakovskiĭ, S. A.**, **99e:42020**
Tetunashvili, Sh. T. On the convergence of multiple trigonometric series. (English and Georgian summaries) **99c:42014**
Trebels, W. *see* **Stokolos, A. M.**, **99k:42017**
Wang, Kun Yang[1] *see* **Brown, Gavin**[1], **99b:42015**
Weinberger, Hans F. *see* **Duffin, Richard J.**, **99f:42023**
Weisz, Ferenc Riemann summability of multi-dimensional trigonometric-Fourier series. (English summary) **99h:42020**

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Bloshanskaya, S. K. (*with* Bloshanskiĭ, I. L.; Roslova, T. Yu.) Generalized localization for double trigonometric Fourier series and Fourier-Walsh series of functions from $L\log^+ L\log^+\log^+ L$. (Russian. Russian summary) **99f:42054**
Bloshanskiĭ, I. L. *see* **Bloshanskaya, S. K.; et al.**, **99f:42054**
Chen, Chang-Pao (*with* Lin, Chin-Cheng) Integrability, mean convergence, and Parseval's formula for double trigonometric series. (English summary) **99d:42007**
Dattoli, G. *see* **Lorenzutta, S.; et al.**, **99c:33006**
Dzagnidze, O. P. Associated integrals, functions, series and a radial derivative of the Poisson spherical integral.
Fridli, Sándor Integrability and L^1-convergence of trigonometric and Walsh series. (English summary) **99d:42004**
Gatesoupe, Michel (*with* Salinger, David L.; Stegeman, Jan D.) Deux analyses de Fourier sur l'ensemble de Cantor. (English and French summaries) [Two Fourier analyses on the Cantor set] **99i:43006**
Il'in, Vladimir Aleksandrovich[1] One more generalization of the Bessel inequality and the Riesz-Fischer theorem for a Fourier series in a uniformly bounded orthonormal system. (Russian) **99j:42003**
Jiang, Qingtang On the regularity of matrix refinable functions. (English summary) **99d:42063**
— Multivariate matrix refinable functions with arbitrary matrix dilation. (English summary) **99i:42047**
Kalton, Nigel J. (*with* Tzafriri, L.) The behaviour of Legendre and ultraspherical polynomials in L_p-spaces. (English summary) **99k:33042**
Lin, Chin-Cheng *see* **Chen, Chang-Pao**, **99d:42007**
Lorenzutta, S. (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Tocci, D.) A note on generalized Bessel functions and Fourier series. (English and Italian summaries) **99c:33006**
Maino, G. *see* **Lorenzutta, S.; et al.**, **99c:33006**
Roslova, T. Yu. *see* **Bloshanskaya, S. K.; et al.**, **99f:42054**
Salinger, David L. *see* **Gatesoupe, Michel; et al.**, **99i:43006**
Stegeman, Jan D. *see* **Gatesoupe, Michel; et al.**, **99i:43006**
Suzuki, Hideo[4] Delone sets and Riesz basis. (English summary) **99a:46036**
Tocci, D. *see* **Lorenzutta, S.; et al.**, **99c:33006**
Torre, Amalia *see* **Lorenzutta, S.; et al.**, **99c:33006**
Tzafriri, L. *see* **Kalton, Nigel J.**, **99k:33042**

42B08 Summability

Bagota, Mónika (*with* Móricz, Ferenc) The maximal Riemann operator for functions in Hardy spaces on the two-dimensional torus. (English summary) **99f:42024**
Belinskiĭ, É. S. Strong summability for the Marcinkiewicz means in the integral metric and related questions. (English summary) **99k:42018**
Berens, Hubert (*with* zu Castell, Wolfgang) Hypergeometric functions as a tool for summability of the Fourier integral. (English summary) **99m:42016**
Brandolini, Luca (*with* Colzani, Leonardo; Travaglini, Giancarlo) Average decay of Fourier transforms and integer points in polyhedra. **99e:42021**
zu Castell, Wolfgang *see* **Berens, Hubert**, **99m:42016**
Chikobava, N. *see* **Topuriya, S. B.**
Colzani, Leonardo *see* **Brandolini, Luca; et al.**, **99e:42021**
De Michele, L. (*with* Roux, Delfina) The Gibbs phenomenon for multiple Fourier integrals and series: restriction theorems. (English summary) **99i:42015**
Kuang, Ji Chang Riesz mean operators on multidimensional weighted special atomic spaces. (Chinese. English and Chinese summaries) **99c:42015**
Łenski, Włodzimierz (*with* Topolewska, Maria) On the rate of strong summability of double Fourier series. (English summary) **99m:42017**
Móricz, Ferenc *see* **Bagota, Mónika**, **99f:42024**
Popov, D. A. Spherical convergence of the Fourier series and integral of the indicator of a two-dimensional domain. (Russian) **99h:42021**
Roux, Delfina *see* **De Michele, L.**, **99i:42015**
Taberski, Roman On some means of double Fourier series. (English summary) **99k:42019**
Talalyan, N. A. On the approximation of integrable functions by Riemann means of partial sums of their Fourier series. (Russian. English and Russian summaries) **99f:42025**
— On a linear method for the summation of multiple Fourier series. (Russian. English and Russian summaries) **99g:42010**
Tkebuchava, G. E. On multiple Fourier, Fourier-Walsh and Fourier-Haar series in nonreflexive separable Orlicz spaces. (English and Georgian summaries)
Topolewska, Maria *see* **Łenski, Włodzimierz**, **99m:42017**
Topuriya, S. B. (*with* Chikobava, N.) Summability of the Fourier series over generalized spherical functions by the Abel and (C,α) methods. (English summary)
Travaglini, Giancarlo *see* **Brandolini, Luca; et al.**, **99e:42021**
Weisz, Ferenc Strong summability of two-dimensional trigonometric-Fourier series. (English summary) **99c:42016**
— (C,α) means of d-dimensional trigonometric-Fourier series. (English summary) **99d:42018**

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Ash, J. Marshall (*with* Wang, Gang[2]) A survey of uniqueness questions in multiple trigonometric series. (English summary) **99f:42019**
Bakhvalov, A. N. On the divergence everywhere of Fourier series of continuous functions of several variables. (Russian. Russian summary) **99a:42006**
Baron, S. (*with* Schipp, Ferenc) Certain complementary spaces and multipliers for double Walsh series. **99b:42032**
Butzer, Paul Leo (*with* Lei, Junjiang) Errors in truncated sampling series with measured sampled values for not-necessarily bandlimited functions. (English summary) **99m:42003**
Chen, Shou Yin Peetre K-functionals and Riesz summability operators. (Chinese. English and Chinese summaries) **99k:41034**
D'yachenko, M. I. U-convergence of almost everywhere double Fourier series. (Russian. Russian summary) **99e:42017**
Lei, Junjiang *see* **Butzer, Paul Leo**, **99m:42003**
Liflyand, E. R. On the Lebesgue constants of Cesàro means of spherical harmonic expansions. (English summary) **99h:42052**
— (*with* Skopina, M. A.) Square linear means with hyperbolic multipliers. (English summary) **99m:42023**
Macharashvili, N. *see* **Topuriya, S. B.**
Mazhar, S. M. (*with* Móricz, Ferenc) Integrability of double power series with nonnegative coefficients. (English summary) **99e:41022**
Móricz, Ferenc *see* **Mazhar, S. M.**, **99e:41022**
Schipp, Ferenc *see* **Baron, S.**, **99b:42032**
Skopina, M. A. Local convergence of Fourier series with respect to periodized wavelets. (English summary) **99h:42067**
— *see also* **Liflyand, E. R.**, **99m:42023**
Topuriya, S. B. (*with* Macharashvili, N.) On $H(C,\alpha,2)$ and (C,α) summability of Fourier series over generalized spherical functions of $L_p(S^3)$ class functions. (English summary)
Twomey, J. B. Radial variation of functions in Dirichlet-type spaces. **99d:30033**
Wang, Gang[2] *see* **Ash, J. Marshall**, **99f:42019**
Weisz, Ferenc Cesàro summability of one- and two-dimensional Walsh-Fourier series. (Russian summary) **99e:42009**
— The maximal Cesàro operator on Hardy spaces. (English summary) **99g:42003**
Xu, Yuan[1] Summability of Fourier orthogonal series for Jacobi weight functions on the simplex in $\mathbf{R}^d$. (English summary) **99i:42039**
— Summability of Fourier orthogonal series for Jacobi weight on a ball in $\mathbf{R}^d$. (English summary) **99i:42040**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Akhobadze, T. On some analogies of Riemann-Lebesgue theorem for functions of multiple variables. I. (English summary)
Andersen, Kenneth F. Weighted inequalities for iterated convolutions. (English summary) **99m:42018**
Bakonyi, Mihály (*with* Nævdal, Geir) On the matrix completion method for multidimensional moment problems. (English summary) **99k:42020**
Bui, Huy-Qui Bernstein's theorem on weighted Besov spaces. (English summary) **99c:42017**
Carbery, Anthony (*with* Soria, Fernando) Pointwise Fourier inversion and localisation in $\mathbf{R}^n$. **99c:42018**
Dzagnidze, O. P. Lebesgue points and segments for functions of two variables. (Russian. English and Georgian summaries)
Gabisonija, I. (*with* Meskhi, A.) Two-weight inequalities for discrete Hardy-type and Hilbert transforms. (English summary)
González Vieli, Francisco Javier Pointwise Fourier inversion with Cesàro means. (English summary) **99m:42019**
Hunter, M. N. *see* **Love, E. R.**, (**99i:00031**)
Jacob, Niels (*with* Schilling, René L.) An analytic proof of the Lévy-Khinchin formula on $\mathbf{R}^n$. (English summary) **99j:42013**
Jaming, Philippe Principe d'incertitude qualitatif et reconstruction de phase pour la transformée de Wigner. (English and French summaries) [A qualitative uncertainty principle and phase retrieval for the Wigner distribution] **99h:42022**
Janssen, A. J. E. M. Proof of a conjecture on the supports of Wigner distributions. (English summary) **99j:42014**
Jijeishvili, L. Summability by regular methods of multiple series with respect to Haar-type systems. (English summary)
Kokilashvili, Vakhtang New aspects in the weight theory and applications. **99k:42021**
Krabs, Werner A convolution formula for time-invariant linear communication systems. (English summary) **99k:42022**
Liflyand, E. R. Fourier transforms of radial functions. (English summary) **99b:42016**
— (*with* Trebels, W.) On asymptotics for a class of radial Fourier transforms. (English summary) **99g:42011**
Love, E. R. (*with* Hunter, M. N.) Expansions in series of Legendre functions. (English summary) (*see* **99i:00031**)

Mauceri Del Prete, Vincenza The Slepian property for a class of time-frequency localization operators on the hyperbolic space. (Italian summary) **99i:42016**
Meskhi, A. *see* **Gabisonija, I.**
Nævdal, Geir *see* **Bakonyi, Mihály**, **99k:42020**
Pinsky, Mark A. (*with* Taylor, Michael E.) Pointwise Fourier inversion: a wave equation approach. (English summary) **99d:42019**
Popov, D. A. On the spherical convergence of the Fourier integral of the indicator on an N-dimensional domain. (Russian. Russian summary) **99j:42015**
Roslova, T. Yu. On the validity of generalized localization for double trigonometric Fourier series of functions from $L\ln^+ L\ln^+\ln^+ L$. (Russian)
Schilling, René L. *see* **Jacob, Niels**, **99j:42013**
Soria, Fernando *see* **Carbery, Anthony**, **99c:42018**
Tao, Terence (*with* Vargas, Ana; Vega, Luis) A bilinear approach to the restriction and Kakeya conjectures. (English summary) **99f:42026**
Taylor, Michael E. *see* **Pinsky, Mark A.**, **99d:42019**
Tevzadze, T. Sh. Multiple Fourier series with nonnegative coefficients. (English summary)
Trebels, W. *see* **Liflyand, E. R.**, **99g:42011**
Vargas, Ana *see* **Tao, Terence; et al.**, **99f:42026**
Vega, Luis *see* **Tao, Terence; et al.**, **99f:42026**
Weisz, Ferenc The maximal Fejér operator of multi-dimensional Fourier transforms. (English summary) **99m:42020**
Yoo, Yoon Jae Weighted weak type estimates for certain maximal operators in spaces of homogeneous type. (English summary) **99m:42021**
Yudin, Vladimir Aleksandrovich Extremal properties of functions and designs on a torus. (Russian) **99e:42022**

Items with secondary classifications in 42B10

Ben Natan, Yaakov (*with* Weit, Yitzhak) Integrable harmonic functions on $\mathbf{R}^n$. (English summary) **99c:31009**
Brandolini, Luca (*with* Colzani, Leonardo; Travaglini, Giancarlo) Average decay of Fourier transforms and integer points in polyhedra. **99e:42021**
Bray, William O. (*with* Pinsky, Mark A.) Pointwise Fourier inversion on rank one symmetric spaces and related topics. (English summary) **99d:43016**
Chung, Soon-Yeong Positive definite temperature functions and a correspondence to positive temperature functions. (English summary) **99e:46055**
— Positive definiteness of temperature functions. (English summary) **99f:35068**
Cialdea, A. The brothers Riesz theorem: complex and real versions. **99h:42002**
Colzani, Leonardo *see* **Brandolini, Luca; et al.**, **99e:42021**
De Michele, L. (*with* Roux, Delfina) The Gibbs phenomenon for multiple Fourier integrals and series: restriction theorems. (English summary) **99i:42015**
Evans, G. A. *see* **Samson, J. H.**, **99d:65075**
Glaeske, Hans-Jürgen (*with* Kilbas, A. A.) Bessel-type integral transforms on $\mathcal{L}_{\nu,\mu}$-spaces. (English summary) **99m:44006**
Ha Huy Bang The Paley-Wiener-Schwartz theorem for nonconvex domains. **99m:46104**
— The study of properties of functions, depending on the geometry of their spectra. (Russian) **99a:46047a**
— The study of the properties of functions belonging to an Orlicz space depending on the geometry of their spectra. (Russian. Russian summary) **99a:46047b**
Hogan, Thomas A. A note on matrix refinement equations. (English summary) **99f:39040**
Huang, Meichun *see* **Yu, Li; et al.**, **99j:44012**
Huang, Wenda *see* **Yu, Li; et al.**, **99j:44012**
Iosevich, Alex (*with* Sawyer, Eric) Maximal averages over surfaces. (English summary) **99b:42023**
Ji, Wei *see* **Yu, Li; et al.**, **99j:44012**
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Orthogonal harmonic analysis and scaling of fractal measures. (English and French summaries) **99h:28019**
— (*with* Pedersen, Steen) Orthogonal harmonic analysis of fractal measures. (English summary) **99b:28008**
Kilbas, A. A. *see* **Glaeske, Hans-Jürgen**, **99m:44006**
Lorentz, Rudolph Alexander (*with* Madych, W. R.; Sahakian, Artur A.) Translation and dilation invariant subspaces of $L^2(\mathbf{R})$ and multiresolution analyses. (English summary) **99h:42062**
Madych, W. R. *see* **Lorentz, Rudolph Alexander; et al.**, **99h:42062**
Mourou, Mohamed Ali (*with* Trimèche, Khélifa) Inversion of the Weyl integral transform and the Radon transform on $\mathbf{R}^n$ using generalized wavelets. (English summary) **99k:44004**
Pedersen, Steen *see* **Jorgensen, Palle E. T.**, **99b:28008** *and* **99h:28019**
Pike, G. B. Multidimensional Fourier transforms in magnetic resonance imaging. (*see* **99c:94011**)
Pinsky, Mark A. *see* **Bray, William O.**, **99d:43016**
Roux, Delfina *see* **De Michele, L.**, **99i:42015**
Rubin, Boris Fractional calculus and wavelet transforms in integral geometry. (English summary) **99i:42054**
Sahakian, Artur A. *see* **Lorentz, Rudolph Alexander; et al.**, **99h:42062**
Samson, J. H. (*with* Evans, G. A.) Symmetry reduction of Fourier kernels. (English summary) **99d:65075**
Sawyer, Eric *see* **Iosevich, Alex**, **99b:42023**
Shamoyan, F. A. On a conjugate operator in multidimensional Hölder classes on a torus. (Russian) **99i:47061**
Soardi, Paolo M. (*with* Weiland, David) Single wavelets in n-dimensions. (English summary) **99k:42067**
Soraggi, R. L. On injectivity of Fourier transform on Colombeau's algebra of generalized functions. (English summary) **99d:46061**
Stokolos, A. M. (*with* Trebels, W.) On the rate of almost everywhere convergence of Abel-Cartwright means on $L^p(\mathbf{R}^n)$. (English summary) **99k:42017**
Topuriya, S. B. Generalized total differentials of many variable functions and boundary value problems. (English summary)
Travaglini, Giancarlo *see* **Brandolini, Luca; et al.**, **99e:42021**
Trebels, W. *see* **Stokolos, A. M.**, **99k:42017**
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Vũ Kim Tuấn Airy integral transform and the Paley-Wiener theorem. (English summary) **99k:44014**
— New type Paley-Wiener theorems for the modified multidimensional Mellin transform. (English summary) **99k:44010**
Weiland, David *see* **Soardi, Paolo M.**, **99k:42067**
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Yu, Li (*with* Huang, Wenda; Huang, Meichun; Zhu, Zizhong; Zeng, Xiao Ming[2]; Ji, Wei) The Laguerre-Gaussian series representation of two-dimensional fractional Fourier transform. (English summary) **99j:44012**
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Zhu, Zizhong *see* **Yu, Li; et al.**, **99j:44012**

42B15 Multipliers

Ansorena, José Luis (*with* Blasco, Oscar) Convolution multipliers on weighted Besov spaces. (English summary) **99c:42019**
Blasco, Oscar *see* **Ansorena, José Luis**, **99c:42019**
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Kaneko, Makoto (*with* Sato, Enji) Notes on transference of continuity from maximal Fourier multiplier operators on $\mathbf{R}^n$ to those on T^n. (English summary) **99j:42016**
Kapelko, Rafał A multiplier theorem for the Hankel transform. (English summary) **99k:42024**
Khavinson, Dmitry A remark on a paper by T. Qian: "A holomorphic extension result" [Complex Variables Theory Appl. **32** (1997), no. 1, 59–77; MR 98f:42009]. **99c:42021**
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Lyakhov, L. N. Multipliers of the mixed Fourier-Bessel transform. (Russian) **99f:42028**
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Oberlin, Daniel M. Convolution with measures on curves in $\mathbf{R}^3$. (English summary) **99k:42026**
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Ricci, Fulvio L^p-L^q boundedness for convolution operators defined by singular measures in $\mathbf{R}^n$. (Italian) **99c:42023**
Sato, Enji *see* **Kaneko, Makoto**, **99j:42016**
Seip, Kristian Developments from nonharmonic Fourier series. (English summary) **99h:42023**
Simon, Péter Two-parameter multipliers on Hardy spaces. **99c:42024**
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Wojciechowski, Michał On the strong type multiplier norms of rational functions in several variables. **99m:42024**
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— Norm estimates on Hardy spaces and multiple singular integrals. (English summary) **99c:42037**

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Daly, James E. (*with* Phillips, Keith L.) A note on H^1 multipliers for locally compact Vilenkin groups. (English summary) **99j:43005**
Dubtsov, E. S. Henkin measures, Riesz products and singular sets. (English and French summaries) **99k:32020**
Fan, Da Shan (*with* Guo, Kanghui; Pan, Yi Biao) Singular integrals with rough kernels along real-analytic submanifolds in $\mathbf{R}^n$. (English summary) **99k:42031**
Granirer, Edmond E. The Schur property and the WRNP for submodules of the dual of the Fourier algebra $A(G)$. (English and French summaries) **99a:43003**
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Guliev, V. S. On the theory of multipliers of Fourier integrals for Banach-space-valued functions. (Russian) **99e:46048**
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Iancu, G. M. (*with* Wong, Man Wah) Spectra and dynamics of convolution operators. (English summary) **99c:47037**
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Miao, Changxing (*with* Gu, Yong Geng) Space-time estimates for parabolic type operator and application to nonlinear parabolic equations. (English summary) **99m:35107**
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Radha, Ramakrishnan (*with* Thangavelu, Sundaram) Weyl multipliers for invariant Sobolev spaces. (English summary) **99g:46045**
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42B20 Singular integrals (Calderón-Zygmund, etc.)

Al-Hasan, Abdelnaser J. (*with* Fan, Da Shan) L^p-boundedness of a singular integral operator. (English summary) **99k:42027**
Alvarez, Josefina Continuity properties for linear commutators of Calderón-Zygmund operators. (English summary) **99h:42024**
— (*with* Hounie, Jorge) An oscillatory singular integral operator with polynomial phase. (English summary) **99k:42028**
Arai, Hitoshi (*with* Mizuhara, Takahiro) Morrey spaces on spaces of homogeneous type and estimates for $\Box_b$ and the Cauchy-Szegő projection. (English summary) **99d:42021**
Arcozzi, Nicola (*with* Li, Xinwei) Riesz transforms on spheres. **99e:42024**
Bennett, Jonathan Mark A multiplier relation for Calderón-Zygmund operators on $L^1(\mathbf{R}^n)$. (English summary) **99f:42029**
Boza, Santiago (*with* Carro, María J.) Discrete Hardy spaces. (English summary) **99c:42025**
Bramanti, Marco (*with* Cerutti, M. Cristina) Commutators of singular integrals on homogeneous spaces. (Italian summary) **99c:42026**
Caffarelli, Luis A. (*with* Gutiérrez, Cristian E.) Singular integrals related to the Monge-Ampère equation. **99f:42030**
Carro, María J. *see* **Boza, Santiago, 99c:42025**
Cerutti, M. Cristina *see* **Bramanti, Marco, 99c:42026**
Chen, Lung-Kee (*with* Fan, Da Shan) On singular integrals along surfaces related to black [block] spaces. (English summary) **99c:42027**
Chen, Wen Gu (*with* Hu, Guo En; Lu, Shan Zhen) A multilinear oscillatory singular integral operator. II. (Chinese. Chinese summary)
Çınar, İnan The Hardy-Littlewood-Sobolev inequality for non-isotropic Riesz potentials. (English and Turkish summaries) **99f:42031**
David, Guy Unrectifiable 1-sets have vanishing analytic capacity. (English and French summaries) **99i:42018**
Deng, Dong Gao *see* **Yang, Qixiang; et al., 99b:42019**
Ding, Yong Weighted boundedness for fractional oscillatory integral operators with rough kernels. (Chinese. English and Chinese summaries) **99g:42015**
— (*with* Lu, Shan Zhen) Weighted norm inequalities for fractional integral operators with rough kernel. (English summary) **99c:42028**
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— (*with* Yang, Da Chun; Zhou, Zusheng) Boundedness of sublinear operators and commutators on $L^{p,\omega}(\mathbf{R}^n)$. (English summary) **99k:42029**
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Edmunds, David E. (*with* Kokilashvili, Vakhtang) Two-weight compactness criteria for potential type operators. (English and Georgian summaries)
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— (*with* Pan, Yi Biao) L^2-boundedness of a singular integral operator. (English summary) **99d:42022**
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Gotoh, Yasuhiro On global integrability of BMO functions on general domains. (English summary) **99k:42033**
Grafakos, Loukas (*with* Stefanov, Atanas) L^p bounds for singular integrals and maximal singular integrals with rough kernels. (English summary) **99i:42019**
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Karpushkin, Vladimir Nikolaevich Uniform estimates for oscillatory integrals with a phase of the series $\widetilde{R}_m$. (Russian) **99k:42034**
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Liu, Lan Zhe (*with* Yang, Du Qing) Weighted Φ boundedness for generalized singular integral operators. (Chinese. English and Chinese summaries) **99k:42036**
Long, Shun Chao (*with* Wang, Jian[1]) Boundedness of fractional integral operators on weighted Herz spaces. (Chinese. English and Chinese summaries) **99i:42020**
Lu, Shan Zhen (*with* Soria, Fernando) Weighted inequalities for a class of operators related to the disc multiplier. (English and Chinese summaries) **99d:42024**
— (*with* Yang, Da Chun; Zhou, Zusheng) Sublinear operators with rough kernel on generalized Morrey spaces. (English summary) **99h:42027**
— (*with* Tang, Lin; Yang, Da Chun) Boundedness of commutators on homogeneous Herz spaces. (English summary) **99m:42027**
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Ma, Bo Lin Almost everywhere convergence of Cesáro means of spherical harmonic expansions for functions in fractional integral spaces. (English summary) **99j:42020**
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Mattila, Pertti Singular integrals, analytic capacity and rectifiability. (English summary) **99e:42026**
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— *see also* **Fan, Da Shan, 99c:42029**; **99d:42022**; **99g:42016**; **99k:42030**; **99k:42031** *and* **99k:42032**
Qian, Tao Singular integrals on star-shaped Lipschitz surfaces in the quaternionic space. **99f:42037**
Quek, T. S. Fourier multipliers on weighted L^p-spaces. (English summary) **99j:42023**
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— The Calderón reproducing formula, windowed X-ray transforms, and Radon transforms in L^p-spaces. (English summary) **99m:42028**
Ryan, John Dirac operators, conformal transformations and aspects of classical harmonic analysis. (English summary) **99h:42029**
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Seeger, Andreas (*with* Wainger, Stephen; Wright, James Robert; Ziesler, Sarah) Classes of singular integrals along curves and surfaces. (English summary) **99m:42029**
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Soria, Fernando *see* **Lu, Shan Zhen, 99d:42024**
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Topuriya, S. B. Boundary properties of the derivatives of the Poisson integral in a half-space. (Russian. English and Georgian summaries)
Treĭl′, S. R. *see* **Nazarov, Fedor, 99d:42026**; **99e:42028** *and* **99f:42035**
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Vol′berg, A. L. *see* **Nazarov, Fedor; et al., 99e:42028** *and* **99f:42035**
Wainger, Stephen *see* **Seeger, Andreas; et al., 99m:42029**
Wang, Jian[1] *see* **Long, Shun Chao, 99i:42020**
Watson, David K. (*with* Wheeden, Richard L.) Norm estimates and representations for Calderón-Zygmund operators using averages over starlike sets. (English summary) **99m:42030**
Wheeden, Richard L. *see* **Watson, David K., 99m:42030**
Wright, James Robert *see* **Seeger, Andreas; et al., 99m:42029**
Xia, Jingbo *see* **Muhly, Paul S., 99a:42007**
Yan, Li Xin *see* **Yang, Qixiang; et al., 99b:42019**
Yan, Wei Ren L^p weighted estimates for Calderón-Zygmund operators. (Chinese. English and Chinese summaries) **99k:42037**
Yang, Da Chun (*with* Zhou, Zusheng) On local multilinear oscillatory integrals with variable Calderón-Zygmund kernel. (English and Chinese summaries) **99f:42038**
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Yang, Qixiang (*with* Yan, Li Xin; Deng, Dong Gao) On Hörmander condition. **99b:42019**
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Ziesler, Sarah *see* **Seeger, Andreas; et al., 99m:42029**

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Cialdea, A. The brothers Riesz theorem for conjugate differential forms in $\mathbf{R}^n$. (English summary) **99j:31009**
Cianchi, Andrea (*with* Edmunds, David E.) On fractional integration in weighted Lorentz spaces. **99b:26008**
De Rosa, Liliana (*with* Segovia, Carlos) One-sided Littlewood-Paley theory. (English summary) **99c:42032**
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Fan, Da Shan (*with* Lu, Shan Zhen; Yang, Da Chun) Regularity in Morrey spaces of strong solutions to nondivergence elliptic equations with VMO coefficients. (English summary) **99i:35020**
Fiorenza, Alberto (*with* Krbec, Miroslav) Indices of Orlicz spaces and some applications. (English summary) **99b:46032**
Gát, Gy. On the lower bound of Sunouchi's operator with respect to Vilenkin systems. (Russian summary) **99f:42057**
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42B30 H^p-spaces

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42B99 None of the above, but in this section

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42Cxx Nontrigonometric Fourier analysis

42C05 Orthogonal functions and polynomials, general theory [see also 33C45, 33C50, 33D45]

Alaya, Jilani L'adjonction d'une mesure de Dirac à une forme de Laguerre-Hahn. (English, French and Arabic summaries) [Adding a Dirac measure to a Laguerre-Hahn form] **99h:42041**
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43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–02 Research exposition (monographs, survey articles)

(Dynin, D.) *see* **Commutative harmonic analysis, 99h:43002**
(Dynin, S.) *see* **Commutative harmonic analysis, 99h:43002**
Gurarīĭ, V. P. Group methods in commutative harmonic analysis [MR 90f:43001]. (*see* **99h:43002**)
(Khavin, Viktor Petrovich) *see* **Commutative harmonic analysis, 99h:43002**
(Nikol'skiĭ, Nikolai K.) *see* **Commutative harmonic analysis, 99h:43002**
Thangavelu, Sundaram ★ Harmonic analysis on the Heisenberg group. (English summary) **99h:43001**

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Commutative harmonic analysis ★ Commutative harmonic analysis. II. **99h:43002**
Encyclopaedia of Mathematical Sciences ★ Commutative harmonic analysis. II. **99h:43002**

Items with secondary classifications in 43–02

Tewari, U. B. The multiplier problem. **99d:43005**

43–06 Proceedings, conferences, collections, etc.

(Anderson, James Milne) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Litvinov, G. L.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Ross, Kenneth Allen) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Schwartz, Alan L.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Singh, A. I.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Sunder, V. S.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Walter, Martin E.) *see* **Harmonic analysis and hypergroups, 99a:43001**
(Wildberger, N. J.) *see* **Harmonic analysis and hypergroups, 99a:43001**

Items listed otherwise than by author

Conference:
Harmonic Analysis ★ Harmonic analysis and hypergroups. **99a:43001**
Delhi ★ Harmonic analysis and hypergroups. **99a:43001**
Harmonic analysis and hypergroups ★ Harmonic analysis and hypergroups. **99a:43001**

Items with secondary classifications in 43–06

(Komrakov, B. P.) *see* **Lie groups and Lie algebras, 99a:00013**
(Krasil'shchik, I. S.) *see* **Lie groups and Lie algebras, 99a:00013**
(Litvinov, G. L.) *see* **Lie groups and Lie algebras, 99a:00013**
(Sosinskiĭ, A. B.) *see* **Lie groups and Lie algebras, 99a:00013**

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Lie groups and Lie algebras ★ Lie groups and Lie algebras. **99a:00013**

43A05 Measures on groups and semigroups, etc.

Lau, Anthony To-Ming (*with* Losert, Viktor) Ergodic sequences in the Fourier-Stieltjes algebra and measure algebra of a locally compact group. (English summary) **99e:43001**
Losert, Viktor *see* **Lau, Anthony To-Ming, 99e:43001**
Mukhin, V. V. Quasi-invariant measures on topological semigroups. (Russian. English and Russian summaries) **99c:43001**
Valette, Alain On the Haagerup inequality and groups acting on $\tilde{A}_n$-buildings. (English and French summaries) **99f:43001**

Items with secondary classifications in 43A05

Asmar, Nakhlé H. (*with* Kelly, Annela R.; Montgomery-Smith, Stephen J.) Vector-valued weakly analytic measures. (English summary) **99h:43015**
Chandrasekharan, K. ★ A course on topological groups. (English summary) **99k:22010**
Coşkun, Erdal Convolution semigroup of probability measures on abelian Hilbert-Lie groups. **99i:60012**
— Differentiable functions and the generators on a Hilbert-Lie group. (English summary) **99j:60007**
Godefroy, Gilles (*with* Li, Daniel) Strictly convex functions on compact convex sets and applications. **99m:46013**
Gupta, Rameshwar D. (*with* Richards, Donald St. P.) Multivariate Liouville distributions. V. (English summary) **99c:60022**
Jardas, Cvetan (*with* Pečarić, Josip; Sarapa, Nikola) On summability of pairs of convolution sequences of probability measures on locally compact semigroups. (English summary) **99m:60011**
Kelly, Annela R. *see* **Asmar, Nakhlé H.; et al., 99h:43015**
Kharazishvili, A. B. On the uniqueness of Lebesgue and Borel measures. (English summary) **99k:28016**
Leibman, Alexander Multiple recurrence theorem for measure preserving actions of a nilpotent group. (English summary) **99k:28019**
Li, Daniel *see* **Godefroy, Gilles, 99m:46013**
McCrudden, Michael An introduction to the embedding problem for probabilities on locally compact groups. **99i:60015**
Montgomery-Smith, Stephen J. *see* **Asmar, Nakhlé H.; et al., 99h:43015**
Nevo, Amos Spectral transfer and pointwise ergodic theorems for semi-simple Kazhdan groups. (English summary) **99e:28030**
Pečarić, Josip *see* **Jardas, Cvetan; et al., 99m:60011**
Richards, Donald St. P. *see* **Gupta, Rameshwar D., 99c:60022**
Ruzsa, Imre Z. Absolute convergence of an infinite convolution. **99i:60016**
Sarapa, Nikola *see* **Jardas, Cvetan; et al., 99m:60011**
Siudut, Stanisław Cauchy difference operator in $\mathscr{L}^p$-spaces. (English summary) **99d:39029**

43A07 Means on groups, semigroups, etc.; amenable groups

Chen, Rong Sheng² (*with* Zhang, Zhen Qiu) Mean oscillation spaces on homogeneous groups. II. (Chinese. English and Chinese summaries)
Medgalchi, A. R. (*with* Pourbarat, Kh.) Left amenability of weighted groups. (English and Persian summaries) **99a:43002**
Miao, Tianxuan The exposed points of the set of invariant means on an ideal. (English summary) **99b:43001**
Pourbarat, Kh. *see* **Medgalchi, A. R., 99a:43002**
Riazi, Abdolhamid Extremely amenable locally compact semigroups. (English summary) **99e:43002**
Valette, Alain On Godement's characterisation of amenability. (English summary) **99e:43003**
Zhang, Zhen Qiu *see* **Chen, Rong Sheng²**

Items with secondary classifications in 43A07

Chou, Ching (*with* Xu, Guangwu) The weak closure of the set of left translation operators. (English summary) **99c:43003**
Cowling, Michael The predual of the space of convolutors on a locally compact group. (English summary) **99g:43001**
Dodziuk, Jozef (*with* Mathai, Varghese) Approximating L^2 invariants of amenable covering spaces: a combinatorial approach. (English summary) **99e:58201**
Elek, Gábor Amenability, l_p-homologies and translation invariant functionals. (English summary) **99j:53057**
Fisher, Albert M. *see* **Kaimanovich, Vadim A., 99d:60087**
Forrest, Brian Fourier analysis on coset spaces. (English summary) **99h:43020**
Gaboriau, Damien Mercuriale de groupes et de relations. (English and French summaries) [Price-list for groups and relations] **99h:28034**
Granirer, Edmond E. When quotients of the Fourier algebra $A(G)$ are ideals in their bidual and when $A(G)$ has WCHP. (English summary) **99h:22006**
Grigorchuk, Rostislav I. An example of a finitely presented amenable group that does not belong to the class EG. (Russian. Russian summary) **99b:20055**
Grønbæk, Niels Various notions of amenability, a survey of problems. (English summary) **99g:46107**
Kaimanovich, Vadim A. (*with* Fisher, Albert M.) A Poisson formula for harmonic projections. (English and French summaries) **99d:60087**
Mathai, Varghese *see* **Dodziuk, Jozef, 99e:58201**
Miri, M. R. (*with* Pourabdollah, Mohammad Ali) Minimally weakly almost periodic semigroups. (English summary) **99m:43006**
Myasnikov, A. G. Amenable $L_1(G)$-modules that average functions and spaces with a mixed norm. (Russian) **99h:43005**
Pourabdollah, Mohammad Ali *see* **Miri, M. R., 99m:43006**
Rodríguez-Salinas, Baltasar Uniformly countably additive families of measures and group invariant measures. (English summary) **99j:28011**
Shtern, A. I. Triviality and continuity of pseudocharacters and pseudorepresentations. (English summary) **99d:22008**
Starkov, A. N. The Tikhonov property for linear groups. (Russian. Russian summary) **99f:52005**
Tulyakov, S. V. An ergodic property of the space of functions with a unique invariant mean value. (Russian. Russian summary) **99b:47016**
Voit, Michael Properties of subhypergroups. **99b:43006**
Xu, Guangwu *see* **Chou, Ching, 99c:43003**

43A10 Measure algebras on groups, semigroups, etc.

Filali, Mahmoud Finite-dimensional right ideals in some algebras associated with a locally compact group. (English summary) **99i:43001**
Ghahramani, Fereidoun (*with* Lau, Anthony To-Ming) Multipliers and modulus on Banach algebras related to locally compact groups. (English summary) **99h:43003**
Hare, Kathryn E. (*with* Ward, Jo) Finite-dimensional H-invariant spaces. (English summary) **99d:43001**
Lau, Anthony To-Ming *see* **Ghahramani, Fereidoun, 99h:43003**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. (English summary) **99f:43002**
Varopoulos, Nicholas T. Measure algebras of a locally compact abelian group. (*see* **99f:00041**)
Ward, Jo *see* **Hare, Kathryn E., 99d:43001**

Items with secondary classifications in 43A10

Dales, H. Garth (*with* Duncan, John) Second-order cohomology groups of some semigroup algebras. (English summary) **99m:46168**
Duncan, John *see* **Dales, H. Garth, 99m:46168**
Eymard, Pierre Homomorphismes des algèbres de groupe (d'après Paul J. Cohen). [Group algebra homomorphisms (after Paul J. Cohen)] (*see* **99f:00039**)
Filali, Mahmoud Finite-dimensional left ideals in some algebras associated with a locally compact group. (English summary) **99j:22005**
Kahane, Jean-Pierre Algèbres tensorielles et analyse harmonique (d'après N. T. Varopoulos). [Tensor algebras and harmonic analysis (after N. T. Varopoulos)] (*see* **99f:00041**)
Kamyabi-Gol, R. A. Topological center of dual Banach algebras associated to hypergroups. (English summary) **99h:43013**
Laali, J. Regularity and irregularity of multiplication in the circle algebra. (English summary) **99a:46094**
Lashkarizadeh Bami, Mahmood On a conjecture on the uniform convergence of a sequence of weighted bounded positive definite functions on foundation semigroups. (English summary) **99c:43006**
Quek, T. S. (*with* Yap, L. Y. H.) Measures in $M(G)$ which satisfy certain integrability conditions. (Russian summary) **99h:43009**
Yap, L. Y. H. *see* **Quek, T. S., 99h:43009**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Bloom, Walter R. (*with* Xu, Zengfu) Hardy spaces on Chébli-Trimèche hypergroups. (English summary) **99e:43004**
Cowling, Michael The predual of the space of convolutors on a locally compact group. (English summary) **99g:43001**
Domar, Yngve On the convolution Banach algebra $l^1(0,1)$. **99f:43003**
Font, Juan J. Disjointness preserving mappings between Fourier algebras. **99g:43002**
Granirer, Edmond E. The Schur property and the WRNP for submodules of the dual of the Fourier algebra $A(G)$. (English and French summaries) **99a:43003**
Gürkanlı, A. Turan Some convolution algebras and their multipliers. (English summary) **99g:43003**
Lashkarizadeh Bami, Mahmood Representations of certain topological semigroups. **99d:43002**
Lu, Shan Zhen (*with* Yang, Da Chun) Boundedness of sublinear operators in Herz spaces on Vilenkin groups and its application. (English summary) **99h:43004**
Myasnikov, A. G. Amenable $L_1(G)$-modules that average functions and spaces with a mixed norm. (Russian) **99h:43005**
Platonov, S. S. Invariant subspaces in function spaces of polynomial growth on $\mathbf{R}^N$. (Russian. English and Russian summaries) **99g:43004**
Renault, Jean The Fourier algebra of a measured groupoid and its multipliers. (English summary) **99a:43004**
Saloff-Coste, Laurent (*with* Woess, Wolfgang) Transition operators, groups, norms, and spectral radii. (English summary) **99g:43005**
Woess, Wolfgang *see* **Saloff-Coste, Laurent, 99g:43005**
Xu, Zengfu *see* **Bloom, Walter R., 99e:43004**
Yang, Da Chun Some remarks on singular integrals and power weights on Vilenkin groups. (English summary) **99i:43002**
— *see also* **Lu, Shan Zhen, 99h:43004**

Items with secondary classifications in 43A15

Agrawal, Manju Rani (*with* Tewari, U. B.) On existence of finite universal Korovkin sets in Segal algebras. (English summary) **99e:41018**
Baker, John Walter (*with* Lau, Anthony To-Ming; Pym, John) Module homomorphisms and topological centres associated with weakly sequentially complete Banach algebras. (English summary) **99h:46081**
Bloom, Walter R. (*with* Xu, Zengfu) Fourier transforms of Schwartz functions on Chébli-Trimèche hypergroups. (English summary) **99c:43010**
Chou, Ching (*with* Xu, Guangwu) The weak closure of the set of left translation operators. (English summary) **99c:43003**
Elek, Gábor Amenability, l_p-homologies and translation invariant functionals. (English summary) **99j:53057**
Farhadi, Hamid-Reza Characterization of compact and abelian locally compact groups based on the isomorphisms of the algebras $L^1(G)^{**}$. (English summary) (*see* **99a:00041**)
Filali, Mahmoud Minimal left ideals in the group algebra and its second conjugate. (English summary) **99b:22009**
Forrest, Brian Fourier analysis on coset spaces. (English summary) **99h:43020**
Gatesoupe, Michel (*with* Salinger, David L.; Stegeman, Jan D.) Deux analyses de Fourier sur l'ensemble de Cantor. (English and French summaries) [Two Fourier analyses on the Cantor set] **99i:43006**
Greshnov, A. V. Extension of differentiable functions beyond the boundary of the domain on Carnot groups [translation of *Proceedings of the Institute of Mathematics, 31* (Russian), 1–26, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1996]. (English summary) **99c:46027**
Guliev, V. S. (*with* Mustafaev, R. Ch.) Fractional integrals in spaces of functions defined on spaces of homogeneous type. (Russian. English and Russian summaries) **99m:26007**
Hare, Kathryn E. (*with* Ward, Jo) Finite-dimensional H-invariant spaces. (English summary) **99d:43001**
Kahane, Jean-Pierre Algèbres tensorielles et analyse harmonique (d'après N. T. Varopoulos). [Tensor algebras and harmonic analysis (after N. T. Varopoulos)] (*see* **99f:00041**)
Kaniuth, Eberhard (*with* Kutyniok, Gitta) Zeros of the Zak transform on locally compact abelian groups. (English summary) **99b:43003**
Keleti, Tamás Periodic L_p functions with L_q difference functions. (English summary) **99h:28007**
Kokilashvili, Vakhtang (*with* Meskhi, A.) Two-weighted inequalities for integral operators in Lorentz spaces defined on homogeneous groups. (English summary) **99m:42026**
Kutyniok, Gitta *see* **Kaniuth, Eberhard, 99b:43003**
Lashkarizadeh Bami, Mahmood The existence of faithful continuous representations on certain topological semigroups. (English summary) **99e:22009**
Lau, Anthony To-Ming *see* **Baker, John Walter; et al., 99h:46081**
Mäkilä, Pertti M. (*with* Partington, Jonathan R.; Norlander, T.) Bounded power signal spaces for robust control and modeling. (English summary) **99f:93047**
Meskhi, A. *see* **Kokilashvili, Vakhtang, 99m:42026**
Musielak, Anna On approximation by linear integral operations in function spaces. (English summary) **99m:41037**
Mustafaev, R. Ch. *see* **Guliev, V. S., 99m:26007**
Norlander, T. *see* **Mäkilä, Pertti M.; et al., 99f:93047**
Partington, Jonathan R. *see* **Mäkilä, Pertti M.; et al., 99f:93047**
Pym, John *see* **Baker, John Walter; et al., 99h:46081**
Quek, T. S. (*with* Yap, L. Y. H.) Measures in $M(G)$ which satisfy certain integrability conditions. (Russian summary) **99h:43009**
Salinger, David L. (*with* Stegeman, Jan D.) On some properties of the difference spectrum. (English summary) **99m:46125**
— *see also* **Gatesoupe, Michel; et al., 99i:43006**
Skrzypczak, Leszek Heat and harmonic extensions for function spaces of Hardy-Sobolev-Besov type on symmetric spaces and Lie groups. (English summary) **99m:46086**
Stegeman, Jan D. *see* **Gatesoupe, Michel; et al., 99i:43006** *and* **Salinger, David L., 99m:46125**
Tewari, U. B. *see* **Agrawal, Manju Rani, 99e:41018**
Trimèche, Khélifa Wavelets on hypergroups. (English summary) **99b:43005**
Ward, Jo *see* **Hare, Kathryn E., 99d:43001**
Xu, Guangwu *see* **Chou, Ching, 99c:43003**
Xu, Zengfu *see* **Bloom, Walter R., 99c:43010**
Yap, L. Y. H. *see* **Quek, T. S., 99h:43009**
Zheng, Wei Xing *see* **Zhou, Guangcai, 99c:22014**
Zhou, Guangcai (*with* Zheng, Wei Xing) Convolution operators on $H^p(H_k^n)$. (English summary) **99c:22014**

43A17 Analysis on ordered groups, H^p-theory

Yamaguchi, Hiroshi² The theorem of F. and M. Riesz on certain (noncommutative) compact groups. (Japanese) (*see* **99a:17002**)

Items with secondary classifications in 43A17

Asmar, Nakhlé H. (*with* Montgomery-Smith, Stephen J.) On a weak type (1, 1) inequality for a maximal conjugate function. (English summary) **99f:42018**
Fournier, J. J. F. Hardy and Paley inequalities for fully-odd Vilenkin systems. **99d:42046**
Montgomery-Smith, Stephen J. *see* **Asmar, Nakhlé H., 99f:42018**

43A20 L^1-algebras on groups, semigroups, etc.

Carcano, Giovanna Maximal ideal space for classical domains. (English summary) **99h:43006**
Crabb, M. J. (*with* Munn, W. D.) On the l^1-algebra of certain monoids. (English summary) **99i:43003**
Eymard, Pierre Homomorphismes des algèbres de groupe (d'après Paul J. Cohen). [Group algebra homomorphisms (after Paul J. Cohen)] (*see* **99f:00039**)
Farhadi, Hamid-Reza Bipositive isomorphisms between the second duals of group algebras of locally compact groups. (English summary) **99d:43003**
Galé, José E. (*with* White, Michael C.) An analytic semigroup version of the Beurling-Helson theorem. **99h:43007**
Lashkarizadeh Bami, Mahmood Ideals of $M(S)$ as ideals of $\mathrm{LUC}(S)^*$ of a compactly cancellative topological semigroup S. **99i:43004**
Mint Elhacen, Salma (*with* Molitor-Braun, Carine) Étude de l'algèbre $L^1_\omega(G)$ avec G groupe de Lie nilpotent et ω poids polynomial. (English summary) [Study of the Lie algebra $L^1_\omega(G)$, with G a nilpotent Lie group and ω a polynomial weight] **99m:43001**
Molitor-Braun, Carine Exponential actions and maximal $\mathfrak{D}$-invariant ideals. (English summary) **99h:43008**
— *see also* **Mint Elhacen, Salma, 99m:43001**
Munn, W. D. *see* **Crabb, M. J., 99i:43003**
Rejali, A. The Arens regularity of weighted inverse semigroup algebras. (English summary) **99c:43002**
White, Michael C. *see* **Galé, José E., 99h:43007**

Items with secondary classifications in 43A20

Berezanskiĭ, Yuriĭ Makarovich (*with* Kalyuzhnyi, A. A.) ★ Harmonic analysis in hypercomplex systems. (English summary) **99d:43010**
Dales, H. Garth (*with* Ghahramani, Fereidoun; Grønbæk, Niels) Derivations into iterated duals of Banach algebras. (English summary) **99g:46064**
Filali, Mahmoud Finite-dimensional left ideals in some algebras associated with a locally compact group. (English summary) **99j:22005**
Galindo, Jorge (*with* Hernández, Salvador) Transmission of continuity to the Bohr topology. (English summary) **99b:22006**
Gårding, Lars On the span of translates of integrable functions in octants. **99k:42015**
Ghahramani, Fereidoun (*with* Selivanov, Yuriĭ V.) The global dimension theorem for weighted convolution algebras. (English summary) **99h:46096**
— *see also* **Dales, H. Garth; et al., 99g:46064**
Granirer, Edmond E. Amenability and semisimplicity for second duals of quotients of the Fourier algebra $A(G)$. (English summary) **99e:43006**
Green, J. J. Injective semigroup-algebras. (English summary) **99k:46082**
Grønbæk, Niels Various notions of amenability, a survey of problems. (English summary) **99g:46107**
— *see also* **Dales, H. Garth; et al., 99g:46064**
Hernández, Salvador *see* **Galindo, Jorge, 99b:22006**
Kalyuzhnyi, A. A. *see* **Berezanskiĭ, Yuriĭ Makarovich, 99d:43010**
Kamyabi-Gol, R. A. Topological center of dual Banach algebras associated to hypergroups. (English summary) **99h:43013**
Kaneko, Makoto (*with* Sato, Enji) Notes on transference of continuity from maximal Fourier multiplier operators on $\mathbf{R}^n$ to those on T^n. (English summary) **99j:42016**
Lauret, Jorge Commutative spaces which are not weakly symmetric. (English summary) **99a:22016**
(Malyshev, P. V.) *see* **Berezanskiĭ, Yuriĭ Makarovich, 99d:43010**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. (English summary) **99f:43002**
van Neerven, J. M. A. M. Elementary operator-theoretic proof of Wiener's Tauberian theorem. (English summary) **99a:47058**
Robdera, Mangatiana A. (*with* Saab, Paulette) Convolution operators associated with vector measures. (English summary) **99k:47068**
Saab, Paulette *see* **Robdera, Mangatiana A., 99k:47068**
Sato, Enji *see* **Kaneko, Makoto, 99j:42016**
Selivanov, Yuriĭ V. *see* **Ghahramani, Fereidoun, 99h:46096**
Thangavelu, Sundaram ★ Harmonic analysis on the Heisenberg group. (English summary) **99h:43001**
Zimmermann, Georg Spectral synthesis with wavelet methods. (English summary) **99i:42059**
Zumpano, Antônio Infinite type homeomorphisms of the circle and convergence of Fourier series. (English summary) **99b:42008**

43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

Bloom, Walter R. (*with* Xu, Zengfu) Fourier multipliers for local Hardy spaces on Chébli-Trimèche hypergroups. (English summary) **99m:43002**
Chen, Di-Rong *see* **Yang, Ruyue; et al., 99b:43002**
Li, Luoqing *see* **Yang, Ruyue; et al., 99b:43002**
Meaney, Christopher (*with* Prestini, Elena) Almost everywhere convergence of inverse spherical transforms on noncompact symmetric spaces. (English summary) **99j:43001**
Muraz, Gilbert L. Multiplicateurs compacts. (English and French summaries) [Compact multipliers] **99d:43004**
Onneweer, C. W. Hörmander-type multipliers on locally compact Vilenkin groups: the $L^1(G)$-case. (English and Russian summaries) **99e:43005**
Prestini, Elena *see* **Meaney, Christopher, 99j:43001**
Quek, T. S. (*with* Yap, L. Y. H.) Measures in $M(G)$ which satisfy certain integrability conditions. (Russian summary) **99h:43009**
Tewari, U. B. The multiplier problem. **99d:43005**
Xu, Zengfu *see* **Bloom, Walter R., 99m:43002**
Yang, Ruyue (*with* Li, Luoqing; Chen, Di-Rong) Strong approximation by Riesz means on compact symmetric spaces. (English and Chinese summaries) **99b:43002**
Yap, L. Y. H. *see* **Quek, T. S., 99h:43009**
Zheng, Wei Xing *see* **Zhu, Yue Ping**
Zhu, Yue Ping (*with* Zheng, Wei Xing) Multipliers for weighted Hardy spaces on locally compact Vilenkin groups. (Chinese. Chinese summary)

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Daly, James E. (*with* Phillips, Keith L.) A note on H^1 multipliers for locally compact Vilenkin groups. (English summary) **99j:43005**
Gebuhrer, Marc-Olivier About some random Fourier series and multipliers theorems on compact commutative hypergroups. (English summary) **99d:43012**
Gürkanlı, A. Turan Some convolution algebras and their multipliers. (English summary) **99g:43003**
Hu, Zhiguo The von Neumann algebra $\mathrm{VN}(G)$ of a locally compact group and quotients of its subspaces. (English summary) **99b:22010**
Kamyabi-Gol, R. A. Topological center of dual Banach algebras associated to hypergroups. (English summary) **99h:43013**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. (English summary) **99f:43002**
Onneweer, C. W. (*with* Quek, T. S.) L^p-multipliers of mixed-norm type on locally compact Vilenkin groups. (English summary) **99m:43007**
Pedersen, Thomas Vils Endomorphisms of the algebra of absolutely continuous functions and of algebras of analytic functions. (English summary) **99g:46071**
Phillips, Keith L. *see* **Daly, James E., 99j:43005**
Quek, T. S. *see* **Onneweer, C. W., 99m:43007**
Renault, Jean The Fourier algebra of a measured groupoid and its multipliers. (English summary) **99a:43004**
Simon, Péter A note on multipliers for Walsh system. **99j:42037**
— Remarks on Walsh-Fourier multipliers. (English summary) **99j:42038**
Thangavelu, Sundaram ★ Harmonic analysis on the Heisenberg group. (English summary) **99h:43001**
Yoo, Jong-Kwang On the spectral properties of multipliers. (English summary) **99j:47052**

43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

Andersson, Mats Erik On the vector valued Hausdorff-Young inequality. (English summary) **99i:43005**
Gatesoupe, Michel (*with* Salinger, David L.; Stegeman, Jan D.) Deux analyses de Fourier sur l'ensemble de Cantor. (English and French summaries) [Two Fourier analyses on the Cantor set] **99i:43006**
Salinger, David L. *see* **Gatesoupe, Michel; et al., 99i:43006**
Stegeman, Jan D. *see* **Gatesoupe, Michel; et al., 99i:43006**
Velasquez, Elinor The uncertainty principle on Cayley graphs. (English summary) **99m:43003**

Items with secondary classifications in 43A25

An, Myoung *see* **Tolimieri, Richard, 99e:94013**
(Dynin, D.) *see* **Commutative harmonic analysis, 99h:43002**
(Dynin, S.) *see* **Commutative harmonic analysis, 99h:43002**
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43A35 Positive definite functions on groups, semigroups, etc.

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43A45 Spectral synthesis on groups, semigroups, etc.

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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

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43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

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43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

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43A62 Hypergroups

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Bloom, Walter R. (*with* Xu, Zengfu) Fourier transforms of Schwartz functions on Chébli-Trimèche hypergroups. (English summary) **99c:43010**
Connett, William C. (*with* Schwartz, Alan L.) Hypergroups and differential equations. (English summary) (*see* **99a:00013**)
Gallardo, Léonard Some methods to find moment functions on hypergroups. (English summary) **99d:43011**
Gebuhrer, Marc-Olivier About some random Fourier series and multipliers theorems on compact commutative hypergroups. (English summary) **99d:43012**
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43A65 Representations of groups, semigroups, etc. [see also 22A10, 22A20, 22Dxx, 22E45]

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43A70 Analysis on specific locally compact abelian groups [see also 11R56, 22B05]

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Phillips, Keith L. *see* **Daly, James E.**, **99j:43005**
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Su, Wei Yi (*with* Liu, Guangqi) The boundedness of certain operators on Hölder and Sobolev spaces. (English summary) **99c:43012**
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Simon, Péter (*with* Weisz, Ferenc) Paley type inequalities for Vilenkin-Fourier coefficients. (English summary) **99c:42050**
Weisz, Ferenc *see* **Simon, Péter, 99c:42050**
Yang, Da Chun *see* **Lu, Shan Zhen, 99h:43004**

43A75 Analysis on specific compact groups

Neretin, Yurii A. Restriction of functions holomorphic in a domain to curves lying on the boundary of the domain, and discrete $SL_2(\mathbf{R})$-spectra. (Russian. Russian summary) **99h:43016**
Wade, William R. Harmonic analysis on Vilenkin groups. (English summary) **99h:43017**

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Toledo, Rodolfo On Hardy-norm of operators with property Δ. (English summary) **99f:42044**
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43A77 Analysis on general compact groups

Gross, Leonard The mathematical ramifications of Wiener's program in statistical physics. **99d:43015**

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43A80 Analysis on other specific Lie groups [see also 22Exx]

Alexopoulos, Georges Sous-laplaciens et densités centrés sur les groupes de Lie à croissance polynomiale du volume. (English and French summaries) [Centered sub-Laplacians and densities in Lie groups of polynomial volume growth] **99i:43011**
Bertrand, Jacqueline (*with* Bertrand, Pierre) Symbolic calculus on the time-frequency half-plane. (English summary) **99h:43018**
Bertrand, Pierre *see* **Bertrand, Jacqueline, 99h:43018**
Fujita, Etsuro (*with* Nomura, Takaaki) Berezin transforms on the 2×2 matrix space related to the $U(2) \times U(2)$-action. (English summary) **99k:43008**
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Shu, Li Sheng (*with* Zheng, Wei Xing) The asymptotic behavior of the Fourier transform on $SL(2, \mathbf{R})$. (Chinese. Chinese summary) **99c:43014**
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43A85 Analysis on homogeneous spaces

Anker, Jean-Philippe (*with* Ji, Lizhen) Comportement exact du noyau de la chaleur et de la fonction de Green sur les espaces symétriques non compacts. (English and French summaries) [Exact behavior of the heat kernel and of the Green function on noncompact symmetric spaces] **99k:43009**
Ben Natan, Yaakov (*with* Weit, Yitzhak) Integrable harmonic functions on symmetric spaces of rank one. (English summary) **99k:43010**
Bray, William O. (*with* Pinsky, Mark A.) Pointwise Fourier inversion on rank one symmetric spaces and related topics. (English summary) **99d:43016**
Bros, Jacques Périnoyaux sur l'hyperboloïde complexe et applications à la théorie quantique des champs. (English and French summaries) [Perikernels on the complex hyperboloid and applications to quantum field theory] **99i:43012**
Camporesi, Roberto The Helgason Fourier transform for homogeneous vector bundles over Riemannian symmetric spaces. (English summary) **99c:43015**
Chen, Yi Jun The summability of certain maximal functions on noncompact symmetric spaces of rank 1. (Chinese. English and Chinese summaries) **99m:43010**
van Dijk, Gerrit (*with* Mokni, Kamel) Harmonic analysis on a class of generalized Gel'fand pairs associated with hyperbolic spaces. (English summary) **99c:43016**
Ding, Hongming Ramanujan's master theorem for Hermitian symmetric spaces. (English summary) **99k:43011**
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Forrest, Brian Fourier analysis on coset spaces. (English summary) **99h:43020**
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Kamoun, Nouri Fonctions indéfiniment différentiables invariantes sur l'espace tangent d'un espace symétrique. (English and French summaries) [Infinitely differentiable invariant functions on the tangent space of a symmetric space] **99k:43012**
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43A90 Spherical functions [see also 22E45, 22E46, 33C65, 33D55]

Bros, Jacques (*with* Viano, Giovanni Alberto) Connection between the harmonic analysis on the sphere and the harmonic analysis on the one-sheeted hyperboloid: an analytic continuation viewpoint. II. (English summary) **99b:43008**
— (*with* Viano, Giovanni Alberto) Connection between the harmonic analysis on the sphere and the harmonic analysis on the one-sheeted hyperboloid: an analytic continuation viewpoint. III. (English summary) **99b:43009**
Ding, Hongming Generalized binomial expansion on complex matrix space. (English summary) **99g:43011**
Pedon, Emmanuel Analyse harmonique des formes différentielles sur l'espace hyperbolique réel. I. Transformation de Poisson et fonctions sphériques. (English and French summaries) [Harmonic analysis for differential forms on real hyperbolic spaces. I. Poisson transforms and spherical functions] **99h:43022**
Shu, Li Sheng (*with* Zheng, Wei Xing) About spherical functions on $SL(2, \mathbf{R})$. (English summary) **99h:43023**
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Freeden, Willi (*with* Schreiner, M.) Orthogonal and nonorthogonal multiresolution analysis, scale discrete and exact fully discrete wavelet transform on the sphere. (English summary) **99i:42046**
Kangni, Kinvi (*with* Touré, Saliou) Transformation de Fourier sphérique de type δ. (English and French summaries) [Spherical Fourier transform of type δ] **99c:22007**
Mokni, Kamel *see* **van Dijk, Gerrit**, **99c:43016**
Ólafsson, Gestur Open problems in harmonic analysis on causal symmetric spaces. **99h:43021**
Oshima, Toshio Asymptotic behavior of Flensted-Jensen's spherical trace functions with respect to spectral parameters. **99b:43007**
Papadopoulos, Athanase *see* **Coornaert, Michel**, **99j:53056**
Perelomov, A. M. *see* **Cariñena, José F.**, **99a:33008**
Schreiner, M. *see* **Freeden, Willi**, **99i:42046**
Stetkær, Henrik Harmonic analysis and functional equations. **99d:39030**
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Younis, M. S. Fourier transforms of Lipschitz functions on the hyperbolic plane H^2. (English summary) **99c:43018**
Zhu, Fuliu Almost everywhere convergence of Riesz means on noncompact symmetric space $SL(3, \mathbf{H})/Sp(3)$. (English summary) **99d:22019**
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43A99 Miscellaneous topics

Akkouchi, Mohamed (*with* Bakali, Allal; Khalil, Idriss) A class of functional equations on a locally compact group. (English summary) **99k:43015**
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Cohen, Joel M. (*with* Colonna, Flavia) Spectral analysis on homogeneous trees. (English summary) **99a:05097**
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Ruzhansky, Michael Analytic Fourier integral operators, Monge-Ampère equation and holomorphic factorization. (English summary) **99k:58178**
Vespri, Vincenzo *see* **Gianazza, Ugo**, **99m:35033**
Wojdyłło, Piotr Wavelets and Mallat's multiresolution analysis. (English summary) **99j:42043**

44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Cotta, Renato M.) *see* **Integral transform method in thermal and fluids sciences and engineering**

Items listed otherwise than by author

Integral transform method in thermal and fluids sciences and engineering ★ The integral transform method in thermal and fluids sciences and engineering.
Rio de Janeiro ★ The integral transform method in thermal and fluids sciences and engineering.
Workshop:
Integral Transforms ★ The integral transform method in thermal and fluids sciences and engineering.

44–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 44–02

Pathak, Ram Shankar ★ Integral transforms of generalized functions and their applications. (English summary) **99f:44001**

44–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 44–03

Dimovski, I. H. (*with* Kiryakova, Virginia S.) Obrechkoff's generalization of the Laplace and Meijer transforms: origins and recent developments. (English summary) **99m:01024**
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44–04 Explicit machine computation and programs (not the theory of computation or programming)

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44–06 Proceedings, conferences, collections, etc.

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(Jones, William B.) *see* **Orthogonal functions, moment theory, and continued fractions, 99f:00020**
(Ramm, Alexander G.) *see* **Inverse problems, tomography, and image processing, 99a:00030**
(Sri Ranga, Alagacone) *see* **Orthogonal functions, moment theory, and continued fractions, 99f:00020**

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Orthogonal Functions, Moment Theory, and Continued Fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Congress:
ISAAC ★ Inverse problems, tomography, and image processing. **99a:00030**
Inverse problems, tomography, and image processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Newark, DE ★ Inverse problems, tomography, and image processing. **99a:00030**
Orthogonal functions, moment theory, and continued fractions ★ Orthogonal functions, moment theory, and continued fractions. **99f:00020**
Session:
Inverse Problems ★ Inverse problems, tomography, and image processing. **99a:00030**
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44A05 General transforms [see also 42A38]

Gera, Amos E. The relationship between the Z-transform and the discrete-time Fourier transform. (English summary)
Joshi, J. M. C. Recent studies integral transforms. **99j:44001**
Kumbhat, R. K. (*with* Sharma, Sunil) An inversion formula for an integral transform. (English summary) **99i:44001**
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Boyd, W. G. C. Recent developments in asymptotics obtained via integral representations of Stieltjes-transform type. (English summary) **99d:34100**
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Jansche, Stefan *see* **Butzer, Paul Leo, 99m:94007**
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44A10 Laplace transform

Agarwal, Ratan Prakash A note on the Mellin and Laplace transform of beta functions. (English summary) **99h:44001**
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Apelblat, Alexander Application of the Laplace, Mellin and Stieltjes transformations in the evaluation of integrals. (English summary) **99g:44001**
— (*with* Kravitsky, N.) Improper integrals associated with the inverse Laplace transforms of $[\ln(x^2+a^2)]^{-n}$, $n=1,2$. (English summary) **99g:44002**
Bandewar, S. R. *see* **Malgonde, S. P., 99b:44001**
Frontini, Marco (*with* Tagliani, Aldo) Inverse Laplace transform for positive functions and the moment problem. (Italian. English and Italian summaries) **99h:44002**
Galué, Leda (*with* Al Zamel, A.; Kalla, Shyam L.) Evaluation of fractional integrals involving hypergeometric functions. (English summary) **99k:44001**
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Glasser, M. Lawrence (*with* Kowalenko, Victor) A method for evaluating Laplace transforms and other integrals. (English summary) **99k:44002**
Goyal, S. P. *see* **Saigo, Megumi; et al., 99a:44001**
Kalla, Shyam L. *see* **Galué, Leda; et al., 99k:44001**
Kitahama, Akihiro *see* **Matsuzuka, Isamu; et al., 99h:44003**
Kowalenko, Victor Employing transform orthogonality in the determination of integral identities involving arbitrary functions. (English summary) **99g:44003**
— *see also* **Glasser, M. Lawrence, 99k:44002**
Kravitsky, N. *see* **Apelblat, Alexander, 99g:44002**
Malgonde, S. P. (*with* Bandewar, S. R.) The two-sided Laplace-Kontorovich-Lebedev transform of generalized functions. **99b:44001**
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Valbuena M., Magdely (*with* Galué, Leda; Ali, Ismail) Some properties of the finite Laplace transform. (English summary) **99j:44002**
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Aguirre Téllez, Manuel Antonio (*with* Cerutti, Rubén Alejandro; Trione, Susana Elena) Tables of Fourier, Laplace and Hankel transforms of n-dimensional generalized functions. (English summary) **99b:46062**
Belingeri, Carlo (*with* Ricci, Paolo Emilio; Villo', O.) A discretization of the Laplace and Gauss-Weierstrass operators. (English summary) **99b:39021**
Betancor, Jorge J. (*with* Jerez Diaz, C.) New inversion formulas for the Hankel transformations. (English summary) **99i:44004**
Biswas, Tirthabir (*with* Joglekar, Satish D.) Inverse Laplace transform and perturbation theory. (English summary) **99k:81192**
Bobrowski, Adam On the Yosida approximation and the Widder-Arendt representation theorem. (English summary) **99b:47058**
Bros, Jacques (*with* Viano, Giovanni Alberto) Connection between the harmonic analysis on the sphere and the harmonic analysis on the one-sheeted hyperboloid: an analytic continuation viewpoint. II. (English summary) **99b:43008**
— (*with* Viano, Giovanni Alberto) Connection between the harmonic analysis on the sphere and the harmonic analysis on the one-sheeted hyperboloid: an analytic

continuation viewpoint. III. (English summary) **99b:43009**
Cerutti, Rubén Alejandro *see* **Aguirre Téllez, Manuel Antonio; et al., 99b:46062**
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Ciupa, Alexandra (*with* Gavrea, Ioan) On the approximation of the Laplace transform by positive linear operators. (English summary) **99g:41035**
Dimovski, I. H. (*with* Kiryakova, Virginia S.) Obrechkoff's generalization of the Laplace and Meijer transforms: origins and recent developments. (English summary) **99m:01024**
Gavrea, Ioan *see* **Ciupa, Alexandra, 99g:41035**
Gzyl, Henryk Maxentropic reconstruction of Fourier and Laplace transforms under nonlinear constraints. (English summary) **99b:65169**
Howls, C. J. Hyperasymptotics for multidimensional integrals, exact remainder terms and the global connection problem. (English summary) **99a:58154**
Ivić, Aleksandar The Voronoi identity via the Laplace transform. (English summary) **99g:11114**
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Kiryakova, Virginia S. *see* **Dimovski, I. H., 99m:01024**
López García, José Luis Asymptotic expansions of integrals: the term-by-term integration method. (English summary) **99k:41051**
Nakamura, Yoshimasa Continued fraction expansion of the Laplace transformation based on the tau function of the Toda molecule equation. (Japanese) (*see* **99d:00021**)
(Obreschkoff, Nikola) *see* **Dimovski, I. H., 99m:01024**
Ostrogorski, Tatjana The Laplace transform on homogeneous cones. (English summary) **99g:43010**
— Homogeneous cones and Abelian theorems. (English summary) **99m:43012**
Peretti, Aldo Application of the Laplace transform to the solution of Diophantine equations. **99e:11039**
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Pliś, Maria E. Poincaré theorem and nonlinear PDE's. (English summary) **99e:35020**
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— Integral representations for products of Airy functions. III. Quartic products. (English summary) **99h:33017**
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Saxena, Sunil Inverse Laplace transform of the product of a general class of polynomials and the multivariable H-function. (English summary) **99h:33055**
Srivastava, Hari M. Some operational techniques in the theory of special functions. (English summary) **99k:33035**
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Trione, Susana Elena *see* **Aguirre Téllez, Manuel Antonio; et al., 99b:46062**
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Viano, Giovanni Alberto *see* **Bros, Jacques, 99b:43008** *and* **99b:43009**
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44A12 Radon transform [see also 92C55]

Arbuzov, È. V. (*with* Bukhgeĭm, A. L.; Kazantsev, S. G.) Two-dimensional problems in tomography, and the theory of A-analytic functions. (Russian. Russian summary) **99m:44003**
Berenstein, Carlos A. Radon transforms, wavelets, and applications. **99j:44004**
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Casadio Tarabusi, Enrico The horocyclic Radon transform on trees. (English summary) **99b:44002**
Comech, Andrew Sobolev estimates for the Radon transform of Melrose and Taylor. (English summary) **99h:44004**
Denecker, Koen (*with* Van Overloop, Jeroen; Sommen, Franciscus) The general quadratic Radon transform. (English summary) **99j:44005**
Evans, Robert *see* **Gureev, T. E., 99i:44002**
Gureev, T. E. (*with* Evans, Robert) Tomography of objects with a priori known internal geometry. (English summary) **99i:44002**
Katsevich, Alexander Local tomography with nonsmooth attenuation. II. (English summary) **99k:44003**
— Local tomography with nonsmooth attenuation. (English summary) **99h:44005**
Kazantsev, I. G. Tomographic reconstruction from arbitrary directions using ridge functions. (English summary) **99j:44006**
Kazantsev, S. G. *see* **Arbuzov, È. V.; et al., 99m:44003**
Klimenko, O. A. The emission tomography problem in a disk. (Russian. English and Russian summaries) **99b:44003**
More, S. V. *see* **Panchal, S. K., 99b:44004**
Mourou, Mohamed Ali (*with* Trimèche, Khélifa) Inversion of the Weyl integral transform and the Radon transform on $\mathbf{R}^n$ using generalized wavelets. (English summary) **99k:44004**
Natterer, Frank Algorithms in tomography. **99g:44004**
Osman, Nael F. (*with* Prince, Jerry L.) 3D vector tomography on bounded domains. (English summary) **99a:44002**
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Pasichnik, T. V. Application of the fractional-rational method to problems in linear three-dimensional tomography. (English summary) **99e:44001**
Prince, Jerry L. *see* **Osman, Nael F., 99a:44002**
Rubin, Boris Spherical Radon transform and related wavelet transforms. (English summary) **99c:44003**
Scarabotti, Fabio Radon transforms on the symmetric group and harmonic analysis of a class of invariant Laplacians. (English summary) **99k:44005**
Sommen, Franciscus *see* **Denecker, Koen; et al., 99j:44005**
Trimèche, Khélifa *see* **Mourou, Mohamed Ali, 99k:44004**
Van Overloop, Jeroen *see* **Denecker, Koen; et al., 99j:44005**
Wainger, Stephen Discrete analogues of singular and maximal Radon transforms. (English summary) **99g:44005**
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Agranovskiĭ, M. L. (*with* Berenstein, Carlos A.; Kuchment, Peter) Approximation by spherical waves in L^p-spaces. (English summary) **99c:41038**
Atanasi, Laura Radon transform on affine buildings of rank three. (English summary) **99k:51012**
Barzaghi, R. (*with* Sansó, F.) The integrated inverse gravimetric-tomographic problem: a continuous approach. (English summary) **99e:86007**
Berenstein, Carlos A. *see* **Agranovskiĭ, M. L.; et al., 99c:41038**
Bertero, Mario (*with* Boccacci, Patrizia) ★ Introduction to inverse problems in imaging. (English summary) **99k:78027**
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Cheney, Margaret (*with* Isaacson, David; Newell, Jonathan C.) Electrical impedance tomography. (English summary) **99k:78017**
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Eddahbi, M'Hamed Application des transformées de Radon à la décomposition de certains processus de Dirichlet. (French summary) [Application of Radon transforms to the decomposition of certain Dirichlet processes] **99c:60178**
Faridani, Adel Sampling in parallel-beam tomography. (English summary) **99j:94006**
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Ishikawa, Satoshi The range characterizations of the totally geodesic Radon transform on the real hyperbolic space. **99m:43011**
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Khalfin, L. A. (*with* Klebanov, Lev B.) On some problems of computerized tomography. (English summary) **99m:92010**
Klebanov, Lev B. (*with* Zinger, A. A.) Stability of the inverse Radon transform. (English summary) (*see* **99e:60004**)
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Klibanov, Michael V. Global convexity in diffusion tomography. (English summary) **99e:92017**
Koldobsky, Alexander Intersection bodies in $\mathbf{R}^4$. (English summary) **99j:52013**
— Second derivative test for intersection bodies. (English summary) **99j:52014**
Kuchment, Peter *see* **Agranovskiĭ, M. L.; et al., 99c:41038**
Lavrent'ev, Mikhail Mikhaĭlovich Operator Volterra equations and integral geometry problems. (English summary) **99h:45002**
Lissianoi, Sergei (*with* Ponomarev, Igor) On the inversion of the geodesic Radon transform on the hyperbolic plane. (English summary) **99c:53082**
Nakamura, Gen[1] (*with* Uhlmann, Gunther) A layer stripping algorithm in elastic impedance tomography. **99e:35244**
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Nguyen, Dinh Thuc Some applications of tomography and Radon's transform. (English summary) **99m:92011**
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Volčič, Aljoša Generalized Hammer's X-ray problem. (English summary) **99h:52006**
Vũ Kim Tuấn New type Paley-Wiener theorems for the modified multidimensional Mellin transform. (English summary) **99k:44010**
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Zhu, Fuliu The Radon transform on tangent space of bounded symmetric domain $SO^*(8)/U(4)$. (English summary) **99k:43014**
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44A15 Special transforms (Legendre, Hilbert, etc.)

Ahuja, Gopi (*with* Rizvi, S. M. Kamil) The extended Hankel transformation on M'_u-space and its representation.
— Lipschitz conditions satisfied by extended Hankel transformation. (English summary) **99m:44004**
Banerji, P. K. (*with* Gehlot, Kuldeep Singh) Products of Stieltjes transform and fractional integrals on spaces of generalized functions. (English summary) **99m:44005**
Ben Salem, N. (*with* Trimèche, Khélifa) Mehler integral transforms associated with Jacobi functions with respect to the dual variable. (English summary) **99a:44003**
Betancor, Jorge J. (*with* Jerez Diaz, C.) Weighted norm inequalities for the $\mathscr{H}$-transformation. (English summary) **99c:44004**
— (*with* Jerez Diaz, C.) New inversion formulas for the Hankel transformations. (English summary) **99i:44004**
— (*with* Rodríguez-Mesa, Lourdes) Pointwise convergence for Hankel transforms. (English summary) **99j:44007**
— (*with* Rodríguez-Mesa, Lourdes) Lipschitz-Hankel spaces and partial Hankel integrals. (English summary) **99g:44006**
Bingham, N. H. (*with* Inoue, Akihiko) An Abel-Tauber theorem for Hankel transforms. (English summary) **99j:44008**
— (*with* Inoue, Akihiko) The Drasin-Shea-Jordan theorem for Fourier and Hankel transforms. **99c:44005**
Butzer, Paul Leo (*with* Jansche, Stefan) Mellin transform theory and the role of its differential and integral operators. (English summary) **99i:44005**
— (*with* Jansche, Stefan) The finite Mellin transform, Mellin-Fourier series, and the Mellin-Poisson summation formula. (English summary) **99j:44009**
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Chelidze, N. T. On some properties of Stieltjes transforms for functions of n variables. (Russian. English and Georgian summaries)
Cruz-Báez, D. I. (*with* Rodríguez Expósito, José) The $\mathscr{L}_v^{(\rho)}$-transformation on McBride's spaces of generalized functions. (English summary) **99k:44006**
Deeba, Elias Y. (*with* Xie, Shishen) The continuous associated Legendre transform. (English summary) **99b:44005**
Gehlot, Kuldeep Singh *see* **Banerji, P. K.**, **99m:44005**
Glaeske, Hans-Jürgen (*with* Kilbas, A. A.) Bessel-type integral transforms on $\mathscr{L}_{\nu,r}$-spaces. (English summary) **99m:44006**
González Rodríguez, Benito *see* **Hayek Calil, Nácere**, **99k:44007**
Gu, Ben Yuan *see* **Zhang, Yan[6]**; **et al.**, **99j:44013**
Gupta, Neelmani *see* **Saxena, Ram Kishore**, **99b:44008**
Gusarevich, L. D. *see* **Yakubovich, S. B.**, **99k:44011**
Hayek Calil, Nácere (*with* González Rodríguez, Benito) A convolution theorem for the distributional index ${}_2F_1$-transform. (English summary) **99k:44007**
Hu, Zhan Yi (*with* Wang, Wei; Yang, Yi; Ma, Song De) A new definition of the Hough transform. (English summary) **99i:44006**
Huang, Meichun *see* **Yu, Li**; **et al.**, **99j:44012**
Huang, Wenda *see* **Yu, Li**; **et al.**, **99j:44012**
Inoue, Akihiko *see* **Bingham, N. H.**, **99c:44005** *and* **99j:44008**
Jadhav, A. L. (*with* Chaudhary, M. S.) On the modified generalised Hankel transform $S^{\eta,\alpha}$. (English summary) **99h:44006**
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Jerez Diaz, C. *see* **Betancor, Jorge J.**, **99c:44004** *and* **99i:44004**
Ji, Wei *see* **Yu, Li**; **et al.**, **99j:44012**
Kalla, Shyam L. (*with* Virchenko, Nina; Tsarenko, V. N.) On some fractional order integral transforms generated by orthogonal polynomials. (English summary) **99h:44007**
Kierat, Władysław (*with* Sztaba, Urszula) The generalized Fourier transforms of slowly increasing functions. **99b:44006**
Kilbas, A. A. *see* **Glaeske, Hans-Jürgen**, **99m:44006**
Kipriyanov, I. A. (*with* Lyakhov, L. N.) Multipliers of the mixed Fourier-Bessel transform. (Russian) **99b:44007**
Lyakhov, L. N. *see* **Kipriyanov, I. A.**, **99b:44007**
Ma, Song De *see* **Hu, Zhan Yi**; **et al.**, **99i:44006**
Mahato, Anil Kumar An integral transform of generalized functions. II. (Russian summary) **99h:44008**
Naylor, Derek A simplified asymptotic expansion of the Kontorovich-Lebedev transform. (English summary) **99k:44008**
Panchal, D. K. (*with* Saxena, Rajendra Kumar; Parihar, C. L.) The generalized Hankel transform of generalized functions and analyticity theorem. (English summary) **99k:44009**
Parihar, C. L. *see* **Panchal, D. K.**; **et al.**, **99k:44009**
Prudnikov, Anatolii Platonovich (*with* Skórnik, Urszula) A remark on Watson transform. (English summary) **99j:44010**
Rizvi, S. M. Kamil *see* **Ahuja, Gopi**
Rodríguez Expósito, José *see* **Cruz-Báez, D. I.**, **99k:44006**
Rodríguez-Mesa, Lourdes *see* **Betancor, Jorge J.**, **99g:44006** *and* **99j:44007**
Rösler, Margit (*with* Voit, Michael) An uncertainty principle for Hankel transforms. (English summary) **99i:44007**
Saxena, Rajendra Kumar *see* **Panchal, D. K.**; **et al.**, **99k:44009**
Saxena, Ram Kishore (*with* Gupta, Neelmani) On the asymptotic expansion of generalized Stieltjes transform. (English summary) **99b:44008**
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— New type Paley-Wiener theorems for the modified multidimensional Mellin transform. (English summary) **99k:44010**
Wang, Wei *see* **Hu, Zhan Yi**; **et al.**, **99i:44006**
Watugala, G. K. Sumudu transform—a new integral transform to solve differential equations and control engineering problems. (English summary) **99g:44007**
Xie, Shishen *see* **Deeba, Elias Y.**, **99b:44005**
Yakubovich, S. B. (*with* Gusarevich, L. D.) On the non-convolution transformation with the Macdonald type kernel function. (English summary) **99k:44011**
Yang, Guo-Zhen *see* **Zhang, Yan[6]**; **et al.**, **99j:44013**
Yang, Yi *see* **Hu, Zhan Yi**; **et al.**, **99i:44006**
Younis, M. S. The Jacobi Fourier transforms of certain Lipschitz functions on SU(1, 1). (English summary) **99i:44008**
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Yu, Li (*with* Huang, Wenda; Huang, Meichun; Zhu, Zizhong; Zeng, Xiao Ming[2]; Ji, Wei) The Laguerre-Gaussian series representation of two-dimensional fractional Fourier transform. (English summary) **99j:44012**
Zeng, Xiao Ming[2] *see* **Yu, Li**; **et al.**, **99j:44012**
Zhang, Yan[6] (*with* Gu, Ben Yuan; Yang, Guo-Zhen) Generation of self-fractional Hankel functions. (English summary) **99j:44013**
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Abu Muhanna, Yusuf Cauchy transforms and multipliers. (English summary) **99b:30059**
Apelblat, Alexander Application of the Laplace, Mellin and Stieltjes transformations in the evaluation of integrals. (English summary) **99g:44001**
Atakishiev, N. M. *see* **Atakishieva, M. K.**, **99k:33053**
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Baker, John A. Functional equations and Weierstrass transforms. II. (English summary) **99c:39042**
Barkatou, Moulay A. (*with* Duval, Anne) Sur la somme de certaines séries de factorielles. (English and French summaries) [On the sum of certain factorial series] **99f:40001**
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44A20 Transforms of special functions

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44A30 Multiple transforms

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44A35 Convolution

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44A40 Calculus of Mikusiński and other operational calculi

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44A45 Classical operational calculus

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44A60 Moment problems

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44A99 Miscellaneous topics

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45–XX Integral equations

45–01 Instructional exposition (textbooks, tutorial papers, etc.)

Drábek, Pavel (*with* Kufner, Alois) ★ Integralgleichungen. (German) [Integral equations] **99j:45001**
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45–02 Research exposition (monographs, survey articles)

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45A05 Linear integral equations

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Joshi, Nitu On the unification of some integral equations and their solutions involving generalized Bateman's function. (Hindi. English and Hindi summaries)
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— (*with* Nédélec, Jean-Claude) Time-harmonic electromagnetic fields in thin chiral curved layers. (English summary) **99h:78018**
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45D05 Volterra integral equations [see also 34A12]

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Berrone, Lucio R. Local positivity of the solution to Volterra integral equations and heat conduction in materials that may undergoes changes of phase. (English summary) **99f:45001**

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45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

Akopyan, M. T. On an integral equation of convolution type in an unbounded plane domain. (Russian. English and Russian summaries) **99h:45004**
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45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

Tvrdý, Milan Linear integral equations in the space of regulated functions. (English summary) **99k:45012**
Virchenko, Nina (*with* Yuzhakova, G. O.) Systems of N-ary integral equations with a generalized Legendre function. (Ukrainian. English summary) **99k:45013**
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45F10 Dual, triple, etc., integral and series equations

Babloyan, A. A. (*with* Makaryan, V. S.) Dual integral equations that contain combinations of trigonometric functions. (Russian. Armenian summary) **99f:45006**
Lala, Archana Dual integral equations involving generalised Hermite polynomials. II. **99g:45005**
Makaryan, V. S. *see* **Babloyan, A. A.**, **99f:45006**

45F15 Systems of singular linear integral equations

Bulatov, M. V. Reduction of degenerate systems of Volterra-type integral equations to systems of the second kind. (Russian) **99k:45014**

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Sheshko, M. A. A direct method for solving a system of singular equations with a Cauchy kernel. (Russian. Russian summary) **99f:45019**
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45F99 None of the above, but in this section

Christiansen, Søren Derivation and analytical investigation of three direct boundary integral equations for the fundamental biharmonic problem. (English summary) **99d:45006**

45Gxx Nonlinear integral equations [see also 47H15]

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45G05 Singular nonlinear integral equations

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Coclite, Mario Michele Summable positive solutions of a Hammerstein integral equation with singular nonlinear term. (English summary) **99h:45006**
Kilbas, A. A. (*with* Saigo, Megumi) On solution of nonlinear Abel-Volterra integral equation. (English summary) **99m:45007**
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Kamimura, Yutaka An inverse problem of determining a nonlinear term in an ordinary differential equation. (English summary) **99a:34033**
Kaneko, Hideaki (*with* Noren, Richard D.; Padilla, Peter A.) Singularity preserving Galerkin method for Hammerstein equations with logarithmic kernel. (English summary) **99i:65148**
Liu, Xi Yu (*with* Wang, Qing^4) Solutions to impulsive singular boundary value problems. (Chinese. English and Chinese summaries) **99d:34121**
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45G10 Other nonlinear integral equations

Bugajewski, Dariusz On the Volterra integral equation and the Henstock-Kurzweil integral. (English summary) **99a:45009**
Chen, Fang Qi Existence theorems of solutions for nonlinear impulsive Volterra integral equations in Banach spaces. (English summary) **99d:45007**
— Existence of solutions for Volterra integral equations in Banach spaces and monotone iterative techniques. (Chinese. English and Chinese summaries) **99m:45008**
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Człapiński, Tomasz On existence of solutions of a certain nonlinear Volterra integral-functional equation in several variables. (English summary) **99a:45010**
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Dong, Wei Uniqueness of solutions for a class of non-linear Volterra integral equations without continuity. (Chinese. English and Chinese summaries) **99a:45011**
Kirr, Eduard Existence and continuous dependence on data of the positive solutions of an integral equation from biomathematics. **99e:45006**
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O'Regan, Donal Solutions in Orlicz spaces to Uryson integral equations. (English summary) **99h:45010**
— A note on solutions in $L^1[0, 1]$ to Hammerstein integral equations. (English summary) **99k:45016**
— A topological approach to integral inclusions. (English summary) **99f:45007**
— Volterra and Urysohn integral equations in Banach spaces. (English summary) **99k:45017**
— *see also* **Meehan, Maria**, **99h:45009**
Roberts, Catherine A. Analysis of explosion for nonlinear Volterra equations. (English summary) **99j:45003**
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Wang, Hong Xi Almost periodic delay differential equations in epidemiology. (Chinese. English and Chinese summaries) **99k:45018**
Yan, Baoqiang On the existence of multiple solutions of superlinear Hammerstein integral equations. (English and Chinese summaries) **99m:45009**
Yang, Zhi Lin A note on Tonelli's theorem. (Chinese. English and Chinese summaries) **99j:45004**
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Zhang, Jun Zu Oscillations of nonlinear integral equations. (Chinese. English and Chinese summaries) **99k:45019**
Zhang, Pingjian (*with* Chen, Shuping) On infinite-dimensional Riccati integral equations with all coefficients indefinite. (English summary) **99i:45011**
Zhao, Zeng Qin (*with* Li, Xian Kui) Existence and uniqueness of positive solutions to a class of nonlinear integral equations. (Chinese. English and Chinese summaries) **99f:45008**
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Arabadzhyan, L. G. Solutions of an integral equation of Hammerstein type. (Russian. English and Russian summaries) **99e:47098**
Burton, T. A. (*with* Kirk, Colleen) A fixed point theorem of Krasnoselskii-Schaefer type. (English summary) **99a:47081**
— Basic neutral integral equations of advanced type. **99a:34216**
Cardinali, Tiziana (*with* Papageorgiou, Nikolaos S.) Hammerstein integral inclusions in reflexive Banach spaces. (English summary) **99b:47101**
Chai, Guo Qing Existence and uniqueness theorems for solutions to mixed monotone operator equations, with applications. (Chinese. English and Chinese summaries) **99k:47157**
Chen, Yu Qing *see* **Zhang, Shi Sheng; et al.**, **99f:47083**
Cho, Yeol Je *see* **Zhang, Shi Sheng; et al.**, **99f:47083** *and* **Pathak, H. K.; et al.**, **99f:54058**
Ding, Xie Ping (*with* Wang, Fan^1) Solutions for a system of nonlinear random integral and differential equations under weak topology. (Chinese. English and Chinese summaries) **99b:47103**
Ezquerro, J. A. (*with* Gutiérrez, José Manuel; Hernández Verón, Miguel A.; Salanova, M. A.) A multipoint method applied to the solution of Hammerstein integral equations. (Spanish) (*see* **99d:00018**)
Feng, Bin Lu (*with* Yu, Yuan Hong) Oscillation of Volterra integral equations and of functional-differential equations. (Chinese. English and Chinese summaries) **99d:34130**
Friedman, Avner (*with* Reitich, Fernando) Asymptotic behavior of solutions of coagulation-fragmentation models. (English summary) **99i:45018**
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— (*with* O'Regan, Donal) Existence principles for nonlinear resonant operator and integral equations. (English summary) **99k:47159**
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— Fixed points for set-valued mappings in locally convex linear topological spaces. (English summary) **99h:47069**
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— *see also* **Meehan, Maria, 99h:47076** *and* **99k:47159**
Pachpatte, B. G. ★ Inequalities for differential and integral equations. **99b:00001**
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Pathak, H. K. (*with* Cho, Yeol Je; Kang, Shin Min) Common fixed points of biased maps of type (A) and applications. (English summary) **99f:54058**
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45G15 Systems of nonlinear integral equations

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45H05 Miscellaneous special kernels [see also 44A15]

Gorenflo, Norbert Transformation of an axialsymmetric disk problem for the Helmholtz equation into an ordinary differential equation. (English summary) **99g:45008**

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Ali, Ismail (*with* Kalla, Shyam L.) Solution of a class of integro-differential equations by fractional calculus. (English summary) **99m:45010**
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Bahuguna, D. Regular solutions to quasilinear integrodifferential equations in Banach spaces. (English summary) **99a:45013**
Bai, Chuan Zhi Generalized quasisolution pairs for nonlinear impulsive integrodifferential equations of mixed type in Banach spaces. (Chinese. English and Chinese summaries)
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— (*with* Chandrasekaran, M.) Nonlocal Cauchy problem for quasilinear integrodifferential equation in Banach spaces. (English summary) **99m:45011**
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— (*with* Dobner, Hans-Jürgen) On the solution of a fractional free electron laser equation. (English summary) **99h:45011**
— (*with* Dobner, Hans-Jürgen; Kalla, Shyam L.) A fractional integro-differential equation of Volterra type. (English summary) **99i:45013**
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Nieto, Juan J. Periodic boundary value problems for second order impulsive integrodifferential equations with general kernel in Banach spaces. (English summary) **99e:45009**
— *see also* **Liz, Eduardo, (99d:00015)**
Ntouyas, S. K. Global existence results for certain second order delay integrodifferential equations with nonlocal conditions. (English summary) **99h:45013**
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Trofimchuk, O. Yu. Periodic solutions of an abstract integro-differential equation. (Russian) **99h:45016**
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Wang, Quan Yi Existence, uniqueness, and stability of periodic solutions to integrodifferential equations with infinite delay. (Chinese)
Wang, Xu Dong (*with* Guan, Yan Zhu; Wang, Yi) A class of nonlinear integrodifferential equations. (Chinese. English and Chinese summaries) **99f:45010**
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Xu, Wenxiong (*with* Castillo-Chavez, Carlos) Existence and uniqueness of solutions of a model in differential-integral equations. (English and Chinese summaries) **99k:45025**
Yang, Xi Tao (*with* Feng, Chun Hua) The existence of unique almost periodic solutions for a class of neutral Volterra integro-differential equations with infinite delay. (Chinese. English and Chinese summaries) **99m:45016**
Zaghrout, Afaf A. S. (*with* Attalah, S. H.) On asymptotic behaviour of neutral integrodifferential equations. **99a:45016**
Zhang, Fu Bao Minimal and maximal solutions to boundary value problems for integrodifferential equations. (Chinese. English and Chinese summaries) **99e:45010**
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Abeyaratne, Rohan (*with* Knowles, James K.) On an integrodifferential equation arising in a theory of phase transitions in solids. (English summary) **99a:73015**
Appell, J. (*with* Kalitvin, A. S.; Zabreĭko, Petr Petrovich) Fixed point theorems in K-normed spaces and boundary values problems for nonlinear integro-differential equations of Barbashin type. (English summary) **99b:47081**
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Baker, Christopher T. H. (*with* Tang, Arsalang) Stability analysis of continuous implicit Runge-Kutta methods for Volterra integro-differential systems with unbounded delays. (English summary) **99a:45021**
Balachandran, Krishnan (*with* Dauer, Jerald P.; Balasubramaniam, P.) Asymptotic null controllability of nonlinear neutral Volterra integrodifferential systems. (English summary) **99f:93008**
Balasubramaniam, P. (*with* Chandrasekaran, M.) Existence of solutions of nonlinear integrodifferential equation with nonlocal boundary conditions in Banach space. (English summary) **99f:34115**
— *see also* **Balachandran, Krishnan; et al., 99f:93008**
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Boĭkov, I. V. On the stability of motion in a system with aftereffect. (Russian. Russian summary) **99c:34174**
Burton, T. A. (*with* Furumochi, Tetsuo) Periodic solutions of a neutral integro-differential equation. **99m:34187**
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Clément, Philippe (*with* Da Prato, Giuseppe; Prüss, Jan) White noise perturbation of the equations of linear parabolic viscoelasticity. (English summary) **99m:34183**
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Kozhukhar', P. A. (*with* Stanescu, M. M.) On the spectrum of some integro-differential operators. (English, Russian and Moldavian summaries) **99b:47074**
Ladopoulos, E. G. Collocation-approximation methods for nonlinear singular integrodifferential equations in Banach spaces. (English summary) **99a:65190**
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— (*with* Wang, Qing[4]) Solutions to impulsive singular boundary value problems. (Chinese. English and Chinese summaries) **99d:34121**
— (*with* Yan, Baoqiang) Multiple solutions of impulsive boundary value problems on the half-line. (English summary) **99a:34177**
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You, Yun Xiang (*with* Miao, Guo Ping) On the regularization method of the first kind of Fredholm integral equation with a complex kernel and its application. (Chinese. English and Chinese summaries) **99a:45004**

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Heuer, Norbert (*with* Stephan, Ernst P.) Boundary integral operators in countably normed spaces. (English summary) **99d:65367**

Jiang, Tian-zi The worst case complexity of the Fredholm equation of the second kind with free term in $H^r(\Gamma)$. (English summary) **99d:45013**

— The worst case complexity of the Fredholm equation of the second kind with non-periodic free term and noise information. (English summary) **99d:45014**

Lukas, Mark A. Asymptotic behaviour of the minimum bound method for choosing the regularization parameter. (English summary) **99d:65374**

— Comparisons of parameter choice methods for regularization with discrete noisy data. (English summary) **99d:65375**

Russo, Elvira *see* **Crisci, Maria Rosaria; et al., 99c:65244**

Spinei, I. (*with* Zolotarevskiĭ, V. A.) Direct methods for solving singular integral equations with complex conjugation. (English summary)

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45Mxx Qualitative behavior

45M05 Asymptotics

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Dauylbaev, M. K. On the asymptotic behavior of the solution of singularly perturbed weakly nonlinear integrodifferential equations of arbitrary order. (Russian. English, Russian and Kazakh summaries) **99d:45008**

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Lifanov, I. K. (*with* Poltavskiĭ, L. N.) Numerical solution of supersingular integral equations with additional terms containing smooth kernels. (Russian. Russian summary) **99g:65125**

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Safonov, V. F. (*with* Tuĭchiev, O. D.) Regularization of singularly perturbed integral equations with rapidly varying kernels and their asymptotics. (Russian. Russian summary) **99i:45004**

Tsalyuk, Z. B. *see* **Derbenëv, V. A., 99a:45005**

Tuĭchiev, O. D. *see* **Safonov, V. F., 99i:45004** *and* **Bobodzhanov, A. A., 99k:45001**

Wong, Roderick Some unsolved problems in asymptotics. (English summary) **99e:39046**

Zhang, Jun Zu Oscillations of nonlinear integral equations. (Chinese. English and Chinese summaries) **99k:45019**

45M10 Stability theory

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Sergeev, V. S. On the instability in the critical case of a pair of purely imaginary roots for a class of systems with aftereffect. (Russian. Russian summary) **99i:45023**

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Drozdov, Aleksey D. Explicit stability conditions for integro-differential equations with periodic coefficients. (English summary) **99e:45007**

Elaydi, Saber N. Stability of integrodifferential systems of nonconvolution type. (English summary) **99j:45005**

— Stability of integrodifferential systems of nonconvolution type. (English summary) **99f:34107**

Fabiano, Richard H. Uniformly stable approximation for a linear viscoelastic model. (English summary) **99a:45019**

Hino, Yoshiyuki (*with* Murakami, Satoru) Stabilities in linear integrodifferential equations. **99b:45005**

Lychak, M. M. Stability criteria based on estimates of dissipativity. (Russian. English, Russian and Ukrainian summaries) **99e:93053**

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Sergeev, V. S. On asymptotic stability and an estimate for the domain of attraction in some systems with aftereffect. (Russian. Russian summary) **99e:34109**

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Thieme, Horst R. (*with* van den Driessche, P.) Global stability in cyclic epidemic models with disease fatalities. (English summary) **99m:92048**

Wang, Zhi Cheng[1] *see* **Shi, Bao; et al., 99h:45020**

Xiao, Yan Ni (*with* Tang, San Yi) Stability of a Volterra integrodifferential model with diffusion. (Chinese. English and Chinese summaries) **99e:34110**

Xu, An Shi Boundedness and stability of solutions to nonlinear neutral integrodifferential equations with variable time lag. (Chinese. English and Chinese summaries) **99c:34168**

Yu, Jian She *see* **Shi, Bao; et al., 99h:45020**

Zhao, Xin Quan Stability of solutions of singular integral equations. (Chinese. English and Chinese summaries) **99d:45002**

45M15 Periodic solutions

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Burton, T. A. Linear integral equations and periodicity. (English summary) **99f:45009**

— Basic neutral integral equations of advanced type. **99a:34216**

Trofimchuk, O. Yu. Periodic solutions of an abstract integro-differential equation. (Russian) **99h:45016**

Umbetzhanov, D. U. On the investigation of periodic solutions of integral equations of Abel-Volterra type. (Russian. English, Russian and Kazakh summaries) **99d:45005**

Wang, Xue Mei[1] Periodic solutions for a class of nonlinear Volterra integral equations. (Chinese. English and Chinese summaries) **99g:34148**
Zhang, Jin Qing Maximal and minimal solutions of third-order nonlinear integrodifferential equations. (Chinese. English and Chinese summaries) **99f:45012**

45M20 Positive solutions

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Berrone, Lucio R. Local positivity of the solution to Volterra integral equations and heat conduction in materials that may undergoes changes of phase. (English summary) **99f:45001**
Chae, Dongho (*with* Dubovskiĭ, Pavel B.) Existence and uniqueness for spatially inhomogeneous coagulation-condensation equation with unbounded kernels. (English summary) **99a:45018**
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Lou, Bendong Positive solutions of superlinear Hammerstein integral equations in Banach spaces. (English summary) **99c:45002**
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45M99 None of the above, but in this section

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Feng, Bin Lu (*with* Yu, Yuan Hong) Oscillation of Volterra integral equations and of functional-differential equations. (Chinese. English and Chinese summaries) **99d:34130**
Ford, Neville J. (*with* Baker, Christopher T. H.; Roberts, Jason A.) Nonlinear Volterra integro-differential equations—stability and numerical stability of θ-methods. (English summary) **99j:45006**
Hącia, Lechosław (*with* Kaczmarek, Lech) On the boundedness of solutions for system of two-dimensional Volterra integral equations. (English summary) **99f:45002**
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Kordonis, I.-G. E. (*with* Philos, Ch. G.) Oscillation and nonoscillation in delay or advanced differential equations and in integrodifferential equations. (English summary) **99m:34160**
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Roberts, Catherine A. Analysis of explosion for nonlinear Volterra equations. (English summary) **99j:45003**
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Zaghrout, Afaf A. S. (*with* Attalah, S. H.) On asymptotic behaviour of neutral integrodifferential equations. **99a:45016**

45N05 Abstract integral equations, integral equations in abstract spaces

Ibrahim, A. G. Existence theorems for fractional set-valued integral equations in Banach spaces. (English summary) **99h:45022**
Lizama, Carlos A characterization of uniform continuity for Volterra equations in Hilbert spaces. (English summary) **99b:45008**

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Balachandran, Krishnan (*with* Chandrasekaran, M.) Nonlocal Cauchy problem for quasilinear integrodifferential equation in Banach spaces. (English summary) **99m:45011**
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Chen, Fang Qi Existence theorems of solutions for nonlinear impulsive Volterra integral equations in Banach spaces. (English summary) **99d:45007**
— Existence of solutions for Volterra integral equations in Banach spaces and monotone iterative techniques. (Chinese. English and Chinese summaries) **99m:45008**
Guo, Yuxia Positive solutions of nonlinear integro-differential equations with impulse in Banach space. (English and Chinese summaries) **99m:45013**
Ha, Ki Sik (*with* Shin, Ki-yeon) Abstract nonlinear functional integro-differential equations in Banach spaces. (English summary) **99i:45014**
Heintz, A. On the initial boundary value problems for the Enskog equation in irregular domains. (English summary) **99a:82062**
Kim, Mihi Remarks on Volterra equations in Banach spaces. (English summary) **99k:45006**
Lavrent'ev, Mikhail Mikhaĭlovich Operator Volterra equations and integral geometry problems. (English summary) **99h:45002**
Li, Xian Kui Positive solutions for a class of discontinuous Volterra type integral equations in ordered Banach spaces and their applications. (Chinese. English and Chinese summaries) **99h:45007**
Liu, James H. Integrodifferential equations with non-autonomous operators. (English summary) **99f:45014**
Lizama, Carlos A representation formula for strongly continuous resolvent families. (English summary) **99c:47055**
Motyl, Jerzy Existence of solutions of set-valued Itô equation. (English summary) **99j:60098**
— Stochastic functional inclusion driven by semimartingale. (English summary) **99e:60143**
Oka, Hirokazu Abstract quasilinear integrodifferential equations of hyperbolic type. **99a:45020**
O'Regan, Donal A topological approach to integral inclusions. (English summary) **99f:45007**
— Multivalued integral equations in finite and infinite dimensions. (English summary) **99m:47087**
— Volterra and Urysohn integral equations in Banach spaces. (English summary) **99k:45017**
Prüss, Jan Poisson estimates and maximal regularity for evolutionary integral equations in L_p-spaces. (English summary) **99c:34184**
Shin, Ki-yeon *see* **Ha, Ki Sik, 99i:45014**
(Tanaka, Naoki) *see* **Oka, Hirokazu, 99a:45020**
Väth, Martin Abstract Volterra equations of the second kind. (English summary) **99k:47163**
— Complete continuity of some nonlinear Volterra operator in Banach spaces. (English summary) **99a:47115**
Wang, Zhi Hua (*with* Zhu, Jiang[2]) Existence of solutions for integrodifferential inclusions of mixed type. (Chinese. English and Chinese summaries) **99m:34185**
Xu, Da The global behavior of time discretization for an abstract Volterra equation in Hilbert space. (English summary) **99i:45022**
Zhu, Jiang[2] *see* **Wang, Zhi Hua, 99m:34185**

45P05 Integral operators [see also 47B38, 47G10]

Nersesyan, A. B. Integral equations associated with the singular Sturm-Liouville problem with a point source. (Russian. English and Russian summaries) **99k:45030**

Items with secondary classifications in 45P05

Abreu Blaya, Ricardo (*with* Bory Reyes, Juan) On an abstract singular integral operator on a Banach algebra of continuous functions. (Spanish. English and Spanish summaries) **99k:47115**
Arabadzhyan, L. G. On a conservative integral equation with two kernels. (Russian. Russian summary) **99d:45003**
Bakonyi, Mihály (*with* Woerdeman, Hugo J.) Extensions of positive definite Fredholm operators with partially zero inverse. (English summary) **99h:47010**
Bardaro, Carlo (*with* Mantellini, Ilaria) Modular approximation by sequences of nonlinear integral operators in Musielak-Orlicz spaces. **99m:47057**
Bolia, Mamta *see* **Raina, Ravinder Krishna, 99e:44002**
Bory Reyes, Juan *see* **Abreu Blaya, Ricardo, 99k:47115**
Bourlard, Maryse (*with* Nicaise, Serge) Abstract Green formula and applications to boundary integral equations. (English summary) **99b:47071**
Burenkov, Viktor I. (*with* Evans, William Desmond) On the evaluation of the norm of an integral operator associated with the stability of one-electron atoms. (English summary) **99i:47091**
Butzer, Paul Leo (*with* Jansche, Stefan) Mellin transform theory and the role of its differential and integral operators. (English summary) **99i:44005**
Chang, Ching-Hua (*with* Ha, Chung-Wei) Bounds for the singular values of smooth kernels. **99k:47116**
— (*with* Ha, Chung-Wei) On eigenvalues of differentiable positive definite kernels. (English summary) **99j:47072**
Chen, Chur-jen (*with* Kalitvin, A. S.) On Uryson operators with partial integrals in Lebesgue spaces with mixed norm. (English summary) **99b:47102**
Derbeněv, V. A. (*with* Tsalyuk, Z. B.) Asymptotics of the resolvent of an unstable Volterra equation with a difference kernel. (Russian. Russian summary) **99a:45005**
Dimovski, I. H. (*with* Mincheva, Svetlana) Automorphisms of C which commute with the integration operator. (English summary) **99c:47035**
Dobner, Hans-Jürgen (*with* Ritter, Stefan) Attacking a conjecture in mathematical physics by combining methods of computational analysis and scientific computing. (English summary) **99b:78007**
Dostanić, Milutin R. Some estimates of the remainder in the expressions for the eigenvalue asymptotics of some singular integral operators. (English summary) **99a:47074**
Dudley, Richard M. (*with* González-Barrios, José María) Conditions for integral and other operators to be of trace class. (English summary) **99c:47074**
Elshobaky, E. (*with* Faragallah, M.) Eigenvalue distribution of integral operators defined by Besov-Orlicz kernels. (English summary) **99i:47092**
— (*with* Faragallah, M.) Eigenvalue distribution of integral operators defined by Orlicz kernels. (English summary) **99k:47046**
Evans, William Desmond *see* **Burenkov, Viktor I., 99i:47091**
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Feldman, William Nonlinear Carleman operators on Banach lattices. (English summary) **99j:47104**
Gabbasov, N. S. On the theory of linear integral equations of the third kind. (Russian. Russian summary) **99a:45002**
González-Barrios, José María *see* **Dudley, Richard M., 99c:47074**
Gürlebeck, Klaus On some operators in Clifford analysis. (English summary) **99a:30044**
Ha, Chung-Wei *see* **Chang, Ching-Hua, 99j:47072** *and* **99k:47116**
Jansche, Stefan *see* **Butzer, Paul Leo, 99i:44005**
Jentsch, Lothar (*with* Mirschinka, D.) Bimetal problems. **99j:73036**
Kalitvin, A. S. Spectral properties of partial integral operators of Volterra and Volterra-Fredholm type. (English summary) **99e:47066**
— *see also* **Chen, Chur-jen, 99b:47102**
Korotkov, V. B. On the nonintegrality of Fredholm resolvents of some integral operators. (Russian. Russian summary) **99f:47062**
Krupnik, Naum (*with* Spigel, Efim) Critical points of essential norms of singular integral operators in weighted spaces. (English summary) **99k:47120**
Little, G. (*with* Reade, J. B.) Estimates for the norm of the nth indefinite integral. **99g:47068**
Lomakina, E. N. (*with* Stepanov, Vladimir) On Hardy-type operators in Banach function spaces on the half-axis. (Russian) **99j:47073**

Mantellini, Ilaria (*with* Vinti, Gianluca) φ-variation and nonlinear integral operators. (English summary) **99k:47121**
— *see also* **Bardaro, Carlo**, **99m:47057**
Mazouzi, S. (*with* Pederson, R. N.) Explicit representation of the solution to some boundary value problem. (English summary) **99f:34017**
Maz'ya, Vladimir G. (*with* Solov'ëv, Aleksandr Artëmovich) L_p-theory of boundary integral equations on a contour with inward peak. (English summary) **99g:31003**
Mel'nikov, Yu. B.[1] On spectral analysis of an integral-difference operator. (English summary) **99b:47075a**
— Erratum: "On spectral analysis of an integral-difference operator". **99b:47075b**
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Mirschinka, D. *see* **Jentsch, Lothar**, **99j:73036**
Muhly, Paul S. (*with* Xia, Jingbo) Reduction of Calderón commutators. (English summary) **99a:42007**
Nazarov, Fedor (*with* Treĭl', S. R.) The hunt for a Bellman function: applications to estimates for singular integral operators and to other classical problems of harmonic analysis. (Russian. Russian summary) **99d:42026**
Nicaise, Serge *see* **Bourlard, Maryse**, **99b:47071**
Okada, Susumu Symm's log kernel integral operators. (English summary) **99c:47076**
Pederson, R. N. *see* **Mazouzi, S.**, **99f:34017**
Petrov, N. G. On an estimate for the norm of an operator inverse to an integral operator. (Russian) (*see* **99m:00021**)
Pilidi, V. S. A criterion for the uniform invertibility of a family of strong approximations of one-dimensional singular integral operators with continuous coefficients. (Russian. Russian summary) **99e:45001**
Plato, R. Resolvent estimates for Abel integral operators and the regularization of associated first kind integral equations. (English summary) **99i:45005**
Raina, Ravinder Krishna (*with* Bolia, Mamta) The decompositional structure of a generalized hypergeometric transformation of convolution type. (English summary) **99e:44002**
Reade, J. B. *see* **Little, G.**, **99g:47068**
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Rychkov, V. S. On weighted estimates for a class of Volterra integral operators. (Russian) **99g:47116**
— Splitting of Volterra integral operators with degenerate kernels. (Russian) **99g:47117**
Saginashvili, A. Singular integral operators with shift outside the integration contour. (English and Georgian summaries) **99g:47118**
Shatalov, V. E. *see* **Sternin, Boris Yu.**, **99b:35017**
Solov'ëv, Aleksandr Artëmovich *see* **Maz'ya, Vladimir G.**, **99g:31003**
Spigel, Efim *see* **Krupnik, Naum**, **99k:47120**
Stepanov, Vladimir *see* **Lomakina, E. N.**, **99j:47073**
Sternin, Boris Yu. (*with* Shatalov, V. E.) Analytic continuation of solutions of integral equations and localization of singularities. (Russian. Russian summary) **99b:35017**
Thorpe, B. The norm of powers of the indefinite integral operator on $(0, 1)$. (English summary) **99g:47069**
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Tsalyuk, Z. B. *see* **Derbenëv, V. A.**, **99a:45005**
Vasil'ev, V. B. Integral equations associated with boundary value problems for the Laplace equation in a plane angle. (Russian. Russian summary) **99a:35037**
Väth, Martin Complete continuity of some nonlinear Volterra operator in Banach spaces. (English summary) **99a:47115**
Vinti, Gianluca *see* **Mantellini, Ilaria**, **99k:47121**
Wang, Sheng Hua (*with* Yang, Ming Zhu) The spectra of a class of integrodifferential operators. (Chinese. Chinese summary) **99d:45011**
Woerdeman, Hugo J. *see* **Bakonyi, Mihály**, **99h:47010**
Xia, Jingbo *see* **Muhly, Paul S.**, **99a:42007**
Yang, Ming Zhu *see* **Wang, Sheng Hua**, **99d:45011**

46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46–01 Instructional exposition (textbooks, tutorial papers, etc.)

Debnath, Lokenath (*with* Mikusiński, Piotr) ★ Introduction to Hilbert spaces with applications. (English summary) **99k:46001**
Hirsch, Francis (*with* Lacombe, Gilles) ★ Elements of functional analysis. (English summary) **99j:46001**
Lacombe, Gilles *see* **Hirsch, Francis, 99j:46001**
(Levy, Silvio) *see* **Hirsch, Francis, 99j:46001**
Megginson, Robert E. ★ An introduction to Banach space theory. (English summary) **99k:46002**
Mikusiński, Piotr *see* **Debnath, Lokenath, 99k:46001**
Mitrović, Dragiša (*with* Žubrinić, Darko) ★ Fundamentals of applied functional analysis. (English summary) **99f:46001**
Xiang, Yang Structural methods in functional analysis. (Chinese. English and Chinese summaries)
Žubrinić, Darko *see* **Mitrović, Dragiša, 99f:46001**

Items with secondary classifications in 46–01

Berberian, Sterling K. ★ Fundamentals of real analysis. (English summary) **99i:28001**
Chatterji, Srishti D. ★ Cours d'analyse. 3. (French. French summary) [Analysis course. 3] **99i:00001**
Chekhlov, V. I. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
Cobzaş, Ştefan ★ Analiză matematică (calculul diferenţial). (Romanian) [Mathematical analysis (differential calculus)] **99h:00003**
Constantinescu, Corneliu (*with* Filter, Wolfgang; Weber, Karl) ★ Advanced integration theory. (English summary) **99m:28001**
Douglas, Ronald G. ★ Banach algebra techniques in operator theory. (English summary) **99c:47001**
Fetter, Helga James spaces: two examples of pathological Banach spaces. (Spanish. Spanish summary) **99f:46021**
Filter, Wolfgang *see* **Constantinescu, Corneliu; et al., 99m:28001**
Halmos, Paul R. ★ Introduction to Hilbert space and the theory of spectral multiplicity. **99g:47001**
Igari, Satoru ★ Real analysis—with an introduction to wavelet theory. (English summary) **99g:00005**
Kudryavtsev, L. D. (*with* Kutasov, A. D.; Chekhlov, V. I.; Shabunin, M. I.) ★ Сборник задач по математическому анализу. (Russian. Russian summary) [A collection of problems in mathematical analysis] **99h:00004**
Kutasov, A. D. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
Leont'eva, T. A. (*with* Panferov, V. S.; Serov, V. S.) ★ Задачи по теории функций действительного переменного. (Russian. Russian summary) [Problems in the theory of functions of a real variable] **99e:00003**
Panferov, V. S. *see* **Leont'eva, T. A.; et al., 99e:00003**
(Pierzchalski, Antoni) *see* **Rudin, Walter, 99g:00008**
Rudin, Walter ★ Analiza rzeczywista i zespolona. (Polish. Polish summary) [Real and complex analysis] **99g:00008**
Schröder, Herbert ★ Funktionalanalysis. (German. German summary) [Functional analysis] **99j:47001**
Serov, V. S. *see* **Leont'eva, T. A.; et al., 99e:00003**
Shabunin, M. I. *see* **Kudryavtsev, L. D.; et al., 99h:00004**
Slyusarchuk, V. E. A property of absolutely converging numerical series. (Russian) **99h:40008**
(Sontag, Alexia) *see* **Constantinescu, Corneliu; et al., 99m:28001**
Stakgold, Ivar ★ Green's functions and boundary value problems. (English summary) **99a:35002**
Sunder, V. S. ★ Functional analysis. (English summary) **99h:47001**
(Walczak, Paweł) *see* **Rudin, Walter, 99g:00008**
Weber, Karl *see* **Constantinescu, Corneliu; et al., 99m:28001**

Items listed otherwise than by author

Problems:
Mathematical analysis *see* **Kudryavtsev, L. D.; et al., 99h:00004**

46–02 Research exposition (monographs, survey articles)

Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Subdifferentials: theory and applications. (English summary) **99c:46001**
Kutateladze, S. S. *see* **Kusraev, A. G., 99c:46001**

Items with secondary classifications in 46–02

Castillo, Jesús M. F. (*with* González, Manuel) ★ Three-space problems in Banach space theory. **99a:46034**
González, Manuel *see* **Castillo, Jesús M. F., 99a:46034**
Gowers, William Timothy Banach spaces with few operators. **99m:46034**

46–03 Historical (must also be assigned at least one classification number from Section 01)

Dales, H. Garth A history of conferences on Banach algebras. (English summary) **99g:46001**
Kracht, Manfred (*with* Kreyszig, Erwin) On Hilbert space theory and kernel functions. **99a:46001**
Kreyszig, Erwin *see* **Kracht, Manfred, 99a:46001**

Items with secondary classifications in 46–03

Araki, Huzihiro The work of Alain Connes [MR 87c:46064]. (*see* **99b:00010**)
(Connes, Alain) *see* **Araki, Huzihiro, (99b:00010)**
Gårding, Lars Hyperbolic equations in the twentieth century. (English and French summaries) **99j:01016**
(Gel'fand, Izrail' Moiseevich) *see* **Kantorovich, L. V., 99f:01030**
Henriksen, Melvin Rings of continuous functions in the 1950s. **99d:01025**
Hida, Takeyuki Classical functional analysis and stochastic calculus. (Japanese) (*see* **99d:01002**)
Jones, Vaughan F. R. Index for subfactors [MR 84d:46097]. (*see* **99b:00010**)
Kantorovich, L. V. ★ Selected works. Part I. (English summary) **99f:01030**
Kreyszig, Erwin Interaction between general topology and functional analysis. **99f:01016**
(Kutateladze, S. S.) *see* **Kantorovich, L. V., 99f:01030**
Murillo, Roberto The Weierstrass approximation theorem. (Spanish) (*see* **99i:00034**)
Sarason, Donald Holomorphic spaces: a brief and selective survey. (English summary) **99k:47069**
(Sosinskiĭ, A. B.) *see* **Kantorovich, L. V., 99f:01030**
Stone, Marshall Harvey ★ Linear transformations in Hilbert space. **99k:47001**

Items listed otherwise than by author

Biography:
Kantorovich, Leonid Vital'evich *see* **Kantorovich, L. V., 99f:01030**
Collected Works:
Kantorovich, Leonid Vital'evich *see* **Kantorovich, L. V., 99f:01030**

46–06 Proceedings, conferences, collections, etc.

(Albrecht, Ernst) *see* **Banach algebras '97, 99f:46002**
(Fillmore, Peter A.) *see* **Operator algebras and their applications, 99c:46002**
(Ge, Liming) *see* **Operator algebras and operator theory, 99h:46001**
(Jarosz, Krzysztof) *see* **Function spaces, 99k:46003**
(Lin, Huaxin) *see* **Operator algebras and operator theory, 99h:46001**
(Mathieu, Martin) *see* **Banach algebras '97, 99f:46002**
(Mingo, James A.) *see* **Operator algebras and their applications, 99c:46002**
(Ruan, Zhong-Jin) *see* **Operator algebras and operator theory, 99h:46001**
(Zhang, Dianzhou) *see* **Operator algebras and operator theory, 99h:46001**
(Zhang, Shuang) *see* **Operator algebras and operator theory, 99h:46001**

Items listed otherwise than by author

Banach algebras '97 ★ Banach algebras '97. **99f:46002**
Blaubeuren ★ Banach algebras '97. **99f:46002**
Conference:
Banach Algebras ★ Banach algebras '97. **99f:46002**
Function Spaces ★ Function spaces. **99k:46003**
Operator Algebras and Operator Theory ★ Operator algebras and operator theory. **99h:46001**
Contemporary Mathematics ★ Operator algebras and operator theory. **99h:46001**
— ★ Function spaces. **99k:46003**
Edwardsville, IL ★ Function spaces. **99k:46003**
Exact C^*-algebras and related topics ★ Exact C^*-kan to sono shūhen. (Japanese) [Exact C^*-algebras and related topics] **99i:46001**
Function spaces ★ Function spaces. **99k:46003**
Operator algebras and operator theory ★ Operator algebras and operator theory. **99h:46001**
Operator algebras and their applications ★ Operator algebras and their applications. II. **99c:46002**
Profound development of operator algebras ★ Sayōso kanron no shinka. (Japanese) [Profound development of operator algebras] **99d:46001**
Research on bimodules and quantum groups in operator algebras ★ Sayōso kan ni okeru sōkagun to ryōshi gun no kenkyū. (Japanese) [Research on bimodules and quantum groups in operator algebras] **99a:46002**
Shanghai ★ Operator algebras and operator theory. **99h:46001**
Special Year:
Operator Algebras and Applications ★ Operator algebras and their applications. II. **99c:46002**
Symposium:
Exact C^*-Algebras and Related Topics ★ Exact C^*-kan to sono shūhen. (Japanese) [Exact C^*-algebras and related topics] **99i:46001**
Profound Development of Operator Algebras ★ Sayōso kanron no shinka. (Japanese) [Profound development of operator algebras] **99d:46001**
Research on Bimodules and Quantum Groups in Operator Algebras ★ Sayōso kan ni okeru sōkagun to ryōshi gun no kenkyū. (Japanese) [Research on bimodules and quantum groups in operator algebras] **99a:46002**
Waterloo, ON ★ Operator algebras and their applications. II. **99c:46002**

Items with secondary classifications in 46–06

(Alicki, Robert) *see* **Quantum probability, 99d:00029**
(Antoniou, Ioannis) *see* **Generalized functions, operator theory, and dynamical systems, 99k:00030**
(Axler, Sheldon) *see* **Holomorphic spaces, 99a:00028**
(Ayupov, Shavkat A.) *see* **Algebra and operator theory, 99d:00012**
(Bożejko, Marek) *see* **Quantum probability, 99d:00029**
(Goze, Michel) *see* **Algebra and operator theory, 99d:00012**
(Jain, Pawan Kumar) *see* **Functional analysis, 99h:00036**
(Kamthan, Pawan Kumar) *see* **Functional analysis, 99h:00036**
(Khakimdzhanov, Yu. B.) *see* **Algebra and operator theory, 99d:00012**
(Lumer, Günter) *see* **Generalized functions, operator theory, and dynamical systems, 99k:00030**
(Majewski, Władysław Adam) *see* **Quantum probability, 99d:00029**
(McCarthy, John E.) *see* **Holomorphic spaces, 99a:00028**
(Sarason, Donald) *see* **Holomorphic spaces, 99a:00028**

(Subrahmanyam, P. V.) *see* **Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA), 99c:00014**
(Sunada, Toshikazu) *see* **Functional analysis and global analysis, 99g:00040**
(Sy, Polly Wee) *see* **Functional analysis and global analysis, 99g:00040**

Items listed otherwise than by author

Acquafredda di Maratea ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Algebra and operator theory ★ Algebra and operator theory. **99d:00012**
Berkeley, CA ★ Holomorphic spaces. **99a:00028**
Brussels ★ Generalized functions, operator theory, and dynamical systems. **99k:00030**
Colloquium:
Algebra and Operator Theory ★ Algebra and operator theory. **99d:00012**
Conference:
Functional Analysis and Approximation Theory ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Functional Analysis and Global Analysis ★ Functional analysis and global analysis. **99g:00040**
Generalized Functions—Linear and Nonlinear Problems ★ Generalized functions—linear and nonlinear problems. **99d:00009**
Operator Theory ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Functional analysis ★ Functional analysis. **99h:00036**
Functional analysis and global analysis ★ Functional analysis and global analysis. **99g:00040**
Gdańsk ★ Quantum probability. **99d:00029**
Generalized functions—linear and nonlinear problems ★ Generalized functions—linear and nonlinear problems. **99d:00009**
Generalized functions, operator theory, and dynamical systems ★ Generalized functions, operator theory, and dynamical systems. **99k:00030**
Holomorphic spaces ★ Holomorphic spaces. **99a:00028**
Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA) ★ Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA). **99c:00014**
Madras ★ Lecture notes on aspects of nonlinear, functional and applicable analysis (ANFAA). **99c:00014**
Memorial Volume:
Kamthan, Pawan Kumar ★ Functional analysis. **99h:00036**
Novi Sad ★ Generalized functions—linear and nonlinear problems. **99d:00009**
Proceedings:
Conference on Functional Analysis and Approximation Theory ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. I. **99d:00027**
— ★ Proceedings of the Third International Conference on Functional Analysis and Approximation Theory. Vol. II. **99d:00028**
Quantum probability ★ Quantum probability. **99d:00029**
Quezon City ★ Functional analysis and global analysis. **99g:00040**
Reports:
Conference on Operator Theory ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Research on nonlinear analysis and convex analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **99f:00024**
Symposium:
Nonlinear Analysis and Convex Analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **99f:00024**
Tashkent ★ Algebra and operator theory. **99d:00012**
Timişoara ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Workshop:
Hyperfunctions, Operator Theory and Dynamical Systems ★ Generalized functions, operator theory, and dynamical systems. **99k:00030**
Quantum Probability ★ Quantum probability. **99d:00029**

46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

46A03 General theory of locally convex spaces

Cel, Jarosław A generalization of Tietze's theorem on local convexity for open sets. (English summary) **99d:46002**
Cho, Min-Hyung *see* **Li, Rong Lu; et al., 99i:46002**
Cui, Cheng Ri *see* **Li, Rong Lu; et al., 99i:46002**
Hušek, Miroslav Mazur-like topological linear spaces and their products. (English summary) **99a:46003**
Li, Rong Lu (*with* Cui, Cheng Ri; Cho, Min-Hyung) An invariant with respect to all admissible polar topologies. (Chinese. Chinese summary) **99i:46002**
— *see also* **Wu, Jun De; et al., 99f:46003**
Qu, Wen Bo *see* **Wu, Jun De; et al., 99f:46003**
Schwartz, Laurent Sous-espaces hilbertiens et antinoyaux associés. (French summary) [Hilbert spaces and associated antikernels] (*see* **99f:00039**)
Sherstyukov, V. B. On a class of complete systems. (Russian. English and Russian summaries)
Wu, Jun De (*with* Li, Rong Lu; Qu, Wen Bo) The extension of the Eberlein-Shmul'yan theorem to locally convex spaces. (Chinese. English and Chinese summaries) **99f:46003**
— (*with* Wu, Ya Juan) Null sequences in systems of mappings. (Chinese. English and Chinese summaries) **99m:46001**
Wu, Ya Juan *see* **Wu, Jun De, 99m:46001**

Items with secondary classifications in 46A03

Aguayo, José Strict topologies on spaces of continuous functions and u-additive measure spaces. **99c:46033**
Ansemil, José M. (*with* Floret, Klaus) The symmetric tensor product of a direct sum of locally convex spaces. (English summary) **99b:46003**
Cobos, Fernando (*with* Peetre, Jaak; Persson, Lars-Erik) On the connection between real and complex interpolation of quasi-Banach spaces. (English summary) **99g:46108**
Díaz Alcaide, Juan Carlos (*with* Dineen, Seán) Polynomials on stable spaces. **99a:46082**
Dineen, Seán *see* **Díaz Alcaide, Juan Carlos, 99a:46082**
Floret, Klaus *see* **Ansemil, José M., 99b:46003**
Kramar, Edvard Invariant subspaces for some operators on locally convex spaces. (English summary) **99a:47013**
Kumar, Rajeev *see* **Sharma, Srikant**
Li, Rong Lu *see* **Wu, Jun De; et al., 99h:46028**
Liu, Shu Zhong Construction of polar topologies with the same convergent sequences as locally convex topologies. (Chinese. English and Chinese summaries) **99c:46003**
Pap, Endre *see* **Wu, Jun De; et al., 99h:46028**
Peetre, Jaak *see* **Cobos, Fernando; et al., 99g:46108**
Persson, Lars-Erik *see* **Cobos, Fernando; et al., 99g:46108**
Qu, Wen Bo *see* **Wu, Jun De; et al., 99h:46028**
Sharma, Srikant (*with* Kumar, Rajeev) Invariance of the countability axioms under locally convex tensor product. (English summary)
Wu, Jun De (*with* Pap, Endre; Li, Rong Lu; Qu, Wen Bo) Swartz's Orlicz-Pettis theorem for operators. (English summary) **99h:46028**
Xu, He Qing Locally semiconvex fuzzy topological vector spaces. (Chinese. English and Chinese summaries) **99c:46085**

46A04 Locally convex Fréchet spaces and (DF)-spaces

Albanese, Angela A. Montel subspaces of Fréchet spaces of Moscatelli type. (English summary) **99a:46004**
— (*with* Moscatelli, V. B.) A method of construction of Fréchet spaces. **99m:46002**
Díaz Alcaide, Juan Carlos (*with* Domański, Paweł) On the injective tensor product of distinguished Fréchet spaces. (English summary) **99k:46004**
Domański, Paweł (*with* Vogt, D.) A splitting theorem for the space of smooth functions. (English summary) **99b:46001**
— *see also* **Díaz Alcaide, Juan Carlos, 99k:46004**
Fundo, Mishel The dentability in the spaces with two topologies. (English summary) **99e:46001**
Moscatelli, V. B. *see* **Albanese, Angela A., 99m:46002**
Ostrovskiĭ, M. I. On prequojections and their duals. (English summary) **99k:46005**
Vogt, D. *see* **Domański, Paweł, 99b:46001**

Items with secondary classifications in 46A04

Bonet, José (*with* Dierolf, Susanne) Inductive duals of distinguished Fréchet spaces. (English and Spanish summaries) **99h:46002**
— (*with* Peris, Alfredo) Hypercyclic operators on non-normable Fréchet spaces. (English summary) **99k:47044**
Castillo, Jesús M. F. (*with* Díaz Alcaide, Juan Carlos; Motos, Joaquín) On the Fréchet space L_{p^-}. (English summary) **99g:46031**
Chalov, P. A. (*with* Terzioğlu, T.; Zakharyuta, V. P.) First type power Köthe spaces and m-rectangular invariants. (English summary) **99e:46009**
Díaz Alcaide, Juan Carlos (*with* Fernández López, Antonio[2]; Naranjo, Francisco) Fréchet AL-spaces have the Dunford-Pettis property. (English summary) **99j:46008**
— *see also* **Castillo, Jesús M. F.; et al., 99g:46031**
Dierolf, Susanne *see* **Bonet, José, 99h:46002**
Fernández López, Antonio[2] (*with* Mayoral, Fernando; Naranjo, Francisco; Paúl, Pedro J.) Weakly sequentially complete Fréchet spaces of integrable functions. (English summary) **99e:46031**
— *see also* **Díaz Alcaide, Juan Carlos; et al., 99j:46008**
Mayoral, Fernando *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Motos, Joaquín *see* **Castillo, Jesús M. F.; et al., 99g:46031**
Naranjo, Francisco *see* **Fernández López, Antonio[2]; et al., 99e:46031** *and* **Díaz Alcaide, Juan Carlos; et al., 99j:46008**
Nguyễn Văn Khuê (*with* Phan Thien Danh) Structure of spaces of germs of holomorphic functions. (English summary) **99c:46036**
Paúl, Pedro J. *see* **Fernández López, Antonio[2]; et al., 99e:46031**
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Terzioğlu, T. *see* **Chalov, P. A.; et al., 99e:46009**
Zakharyuta, V. P. *see* **Chalov, P. A.; et al., 99e:46009**

46A08 Barrelled spaces, bornological spaces

Alok, B. N. (*with* Ansari, Md. Jamalluddin) A study of dual barrelled spaces and dual summing mappings.
Ansari, Md. Jamalluddin *see* **Alok, B. N.**
Bustamante González, Jorge (*with* Escobedo Conde, Raúl) When a composition algebra is barrelled? **99a:46005**
Caldas Cueva, Miguel (*with* Pombo, Dinamérico P., Jr.) On a characterization of polynomially barrelled spaces. (English summary) **99f:46004**
Escobedo Conde, Raúl *see* **Bustamante González, Jorge, 99a:46005**
Pombo, Dinamérico P., Jr. *see* **Caldas Cueva, Miguel, 99f:46004**
Sánchez Ruiz, L. M. (*with* Saxon, Stephen A.) Weak barrelledness conditions. **99e:46002**
— *see also* **Saxon, Stephen A., 99a:46006**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Mackey weak barrelledness. (English summary) **99a:46006**
— *see also* **Sánchez Ruiz, L. M., 99e:46002**

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Caldas Cueva, Miguel A non-Archimedean analogue of c-infrabarrelled spaces. (Spanish. English and Spanish summaries) **99m:46178**
— A non-Archimedean analogue of c-infrabarrelled spaces. (Spanish. English and Spanish summaries) **99k:46130**
Gök, Ömer Characterization of the dual center of barrelled spaces. **99k:46085**
Jin, Cong Fuzzy barrelled spaces. (Chinese. English and Chinese summaries)
Mujica, Jorge Separable quotients of Banach spaces. (English summary) **99a:46024**
Pérez-García, Cristina (*with* Schikhof, Wilhelmus H.) p-adic barrelledness and spaces of countable type. (English summary) **99m:46179**
Sánchez Ruiz, L. M. Topological vector spaces without local convexity conditions. **99e:46004**
Schikhof, Wilhelmus H. *see* **Pérez-García, Cristina**, **99m:46179**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

Acharya, Krishna (*with* Neogy, Dilip) On dual nuclear locally convex spaces. (English summary)
Deheri, G. M. Nuclearity of G_∞-like and G_1-like spaces. (English summary) **99f:46005**
Jarrah, A. M. *see* **Tallafha, Abdalla**, **99f:46006**
Le Mau Hai (*with* Pham Hien Bang) Extending and lifting some linear topological structures. (English summary) **99g:46002**
Neogy, Dilip *see* **Acharya, Krishna**
Pham Hien Bang *see* **Le Mau Hai**, **99g:46002**
Tallafha, Abdalla (*with* Jarrah, A. M.) Complementary subspaces isomorphic to a nuclear stable G_∞-space. (English summary) **99f:46006**

Items with secondary classifications in 46A11

Albanese, Angela A. (*with* Moscatelli, V. B.) A method of construction of Fréchet spaces. **99m:46002**
Castillo, Jesús M. F. (*with* Díaz Alcaide, Juan Carlos; Motos, Joaquín) On the Fréchet space L_{p^-}. (English summary) **99g:46031**
Deheri, G. M. Dvoretzky-Rogers theorem for sequence spaces with $\sigma\mu$-topology. (English summary) **99a:46011**
Díaz Alcaide, Juan Carlos *see* **Castillo, Jesús M. F.; et al.**, **99g:46031**
Grothendieck, Alexander Produits tensoriels topologiques et espaces nucléaires. [Topological tensor products and nuclear spaces] (*see* **99f:00034**)
Kaplitskiĭ, V. M. *see* **Kondakov, V. P.**, **99h:46033**
Kondakov, V. P. (*with* Kaplitskiĭ, V. M.) Bases in weighted spaces of entire functions. (English summary) **99h:46033**
Moscatelli, V. B. *see* **Albanese, Angela A.**, **99m:46002**
Motos, Joaquín *see* **Castillo, Jesús M. F.; et al.**, **99g:46031**
Nguyễn Văn Khuê (*with* Phan Thien Danh) Structure of spaces of germs of holomorphic functions. (English summary) **99c:46036**
Phan Thien Danh *see* **Nguyễn Văn Khuê**, **99c:46036**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

Jha, Kamal Kant *see* **Kumar, Anil**, **99e:46003**
Kumar, Anil (*with* Jha, Kamal Kant) On topological tensor products of strict inductive limits of locally convex spaces. (English summary) **99e:46003**
Wengenroth, Jochen A new characterization of $\mathrm{Proj}^1\mathscr{X} = 0$ for countable spectra of (LB)-spaces. (English summary) **99f:46007**

Items with secondary classifications in 46A13

Bonet, José (*with* Dierolf, Susanne) Inductive duals of distinguished Fréchet spaces. (English and Spanish summaries) **99h:46002**
— (*with* Domański, Paweł) Real analytic curves in Fréchet spaces and their duals. (English summary) **99i:46032**
Dierolf, Susanne *see* **Bonet, José**, **99h:46002**
Domański, Paweł *see* **Bonet, José**, **99i:46032**
Nguyễn Văn Khuê (*with* Phan Thien Danh) Structure of spaces of germs of holomorphic functions. (English summary) **99c:46036**
Ostrovskii, M. I. On prequojections and their duals. (English summary) **99k:46005**
Ouerdiane, H. Algèbres nucléaires de fonctions entières et équations aux derivées partielles stochastiques. [Nuclear algebras of entire functions and stochastic partial differential equations] **99k:60165**
Phan Thien Danh *see* **Nguyễn Văn Khuê**, **99c:46036**
Qiu, Jinghui Quasi-fast completeness and inductive limits of webbed spaces. (English and Chinese summaries) **99d:46003**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Cel, Jarosław Characterizing starshaped sets by maximal visibility. (English summary) **99k:46006**
Ji, Dong Hai (*with* Zhang, Jing; Lu, Yan Ming) A condition for β^*-normability of a topological linear space. (Chinese. English and Chinese summaries) **99j:46002**
Lipecki, Zbigniew Noncontinuous linear operators and independent linear topologies. (English summary) **99m:46003**
Lu, Yan Ming *see* **Ji, Dong Hai; et al.**, **99j:46002**
Nguyen To Nhu The finite-dimensional approximation property and the AR-property in needle point spaces. (English summary) **99k:46007**
Sánchez Ruiz, L. M. Topological vector spaces without local convexity conditions. **99e:46004**
Srivastava, P. D. Simultaneous automorphism on a complete linear metric space. (English summary) **99g:46003**
Zhang, Jing *see* **Ji, Dong Hai; et al.**, **99j:46002**

Items with secondary classifications in 46A16

Bayoumi, Aboubakr Fundamental theorem of calculus for locally bounded spaces. (English summary) **99i:46030**
Bhaskaramurthi, T. L. *see* **Rao, Geetha S.**, **99c:41070**
Narang, T. D. Normal structure and fixed point property in linear metric spaces. **99j:47091**
Rao, Geetha S. (*with* Bhaskaramurthi, T. L.) Chebyshev centers proximinality and farthest points in strong normed almost linear spaces. (English summary) **99c:41070**
Vasil'ev, A. I. On an inverse problem in the theory of best approximation in F-spaces. (English summary) **99e:41027**

46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Cho, Yeol Je *see* **Elumalai, S.; et al.**, **99j:46003**
Elumalai, S. (*with* Cho, Yeol Je; Kim, Seong Sik) Best approximation sets in linear 2-normed spaces. (English summary) **99j:46003**
Fernández Muñiz, José L. (*with* Morales Galindo, Soledad B.) The topology of Rf-convergence. (Spanish. Spanish summary) (*see* **99i:00016**)
Kim, Seong Sik *see* **Elumalai, S.; et al.**, **99j:46003**
Morales Galindo, Soledad B. *see* **Fernández Muñiz, José L.**, (**99i:00016**)
Roth, Walter Locally convex cones as generalizations of locally convex vector spaces. (English summary) **99m:46004**

Items with secondary classifications in 46A19

Arshad, Muhammad *see* **Beg, Ismat; et al.**, **99m:46180**
Beg, Ismat (*with* Arshad, Muhammad; Shabir, Muhammad) Fuzzy almost linear spaces. (English summary) **99m:46180**
Im, Sung Mo (*with* Lee, Sang Han) A characterization of reflexivity of normed almost linear spaces. (English summary) **99i:46011**
Lee, Sang Han *see* **Im, Sung Mo**, **99i:46011**
Malčeski, Aleksa l^∞ as n-normed space. (English and Macedonian summaries) **99m:46058**
Malčeski, Risto Remarks on n-normed spaces. (Macedonian. English and Macedonian summaries) **99c:46013**
Shabir, Muhammad *see* **Beg, Ismat; et al.**, **99m:46180**
Zagorodnyuk, A. V. The connection of continuity and boundedness of polynomial operators on pseudonormed vector spaces. (English summary) **99h:46080**

46A20 Duality theory

Beg, Ismat *see* **Popovici, I. Mircea; et al.**, **99c:46004**
Bonet, José (*with* Dierolf, Susanne) Inductive duals of distinguished Fréchet spaces. (English and Spanish summaries) **99h:46002**
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Kumar, Rohtash *see* **Meena, A. S.**, **99m:46005**
Liu, Shu Zhong Construction of polar topologies with the same convergent sequences as locally convex topologies. (Chinese. English and Chinese summaries) **99c:46003**
Meena, A. S. (*with* Kumar, Rohtash) Various types of reflexivity and the dual of a locally convex space. **99m:46005**
Petcu, Alexandru *see* **Popovici, I. Mircea; et al.**, **99c:46004**
Popovici, I. Mircea (*with* Beg, Ismat; Petcu, Alexandru) Dual of a locally convex space of type (L). (English summary) **99c:46004**

Items with secondary classifications in 46A20

Acharya, Krishna (*with* Neogy, Dilip) On dual nuclear locally convex spaces. (English summary)
Chasco Ugarte, Ma. Jesús (*with* Martín-Peinador, E.) Pontryagin reflexive groups are not determined by their continuous characters. (English summary) **99g:43006**
Martín-Peinador, E. *see* **Chasco Ugarte, Ma. Jesús**, **99g:43006**
Neogy, Dilip *see* **Acharya, Krishna**
Nowak, Marian Duality theory of vector-valued function spaces. I. (English summary) **99h:46061**
— Duality theory of vector-valued function spaces. II. (English summary) **99h:46062**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Bayoumi, Aboubakr New separation theorems and Krein-Milman theorem in locally bounded spaces. (English summary) **99j:46004**
Dehghan, Y. N. *see* **Sadeghi, E.**, **99b:46002**
Ignaczak, Ewa (*with* Paszkiewicz, Adam) Extensions of convex functionals on convex cones. (English summary) **99j:46005**
Lassonde, Marc Hahn-Banach theorems for convex functions. (English summary) **99f:46008**
Paszkiewicz, Adam *see* **Ignaczak, Ewa**, **99j:46005**
Sadeghi, E. (*with* Dehghan, Y. N.) Topological vector spaces that admit support sets. (English summary) **99b:46002**
Száz, Árpád The intersection convolution of relations and the Hahn-Banach type theorems. (English summary) **99m:46006**
Takahashi, Wataru Fan's existence theorem for the inequalities concerning convex functions and its applications. **99j:46006**

Items with secondary classifications in 46A22

Bocea, Marian F. Sur quelques problèmes d'analyse fonctionnelle. [On some problems of functional analysis]

Brunner, N. (*with* Howard, Paul E.; Rubin, Jean E.) Choice principles in Węglorz' models. (English summary) **99e:03033**
Du, Nai Lin (*with* Zeng, Xianwu) A note on the principal theorems in the theory of functional analysis. (English summary) **99m:46057**
Gritzmann, Peter (*with* Klee, Victor) Separation by hyperplanes in finite-dimensional vector spaces over Archimedean ordered fields. (English summary) **99k:46012**
Howard, Paul E. *see* **Brunner, N.; et al., 99e:03033**
Kadets, M. I. (*with* Kaibkhanov, K. È.) On the extension of a linear operator to an involutive operator. (Russian. Russian summary) **99b:47012**
Kaibkhanov, K. È. *see* **Kadets, M. I., 99b:47012**
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Meng, Zhi Qing Hahn-Banach theorem of set-valued map. (Chinese. English and Chinese summaries) **99k:47129**
Olteanu, Octav Two sandwich theorems for linear operators and the moment problem. (English summary) **99b:47021**
Rubin, Jean E. *see* **Brunner, N.; et al., 99e:03033**
Shkarin, S. A. Extending smooth functions from linear subspaces of locally convex spaces. (English summary) **99h:46076**
Speegle, Darrin M. Banach spaces failing the almost isometric universal extension property. (English summary) **99b:46020**
Veksler, A. I. Finitely extendable functionals on vector lattices. (English summary) **99k:46011**
Waldschaks, Gerd Extensions of group-valued modular maps. (English summary) **99c:28033**
Yan, Shi Yu Continuity of fuzzy linear functionals on L-fuzzy topological vector spaces. (Chinese. English and Chinese summaries) **99h:46137**
Zeng, Xianwu *see* **Du, Nai Lin, 99m:46057**
Zhang, Xiao Dong[3] On extensions of compact positive operators on Banach lattices. (English summary) **99c:47048**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Boos, J. (*with* Leiger, T.) "Restricted" closed graph theorems. (English summary) **99a:46007**
Bridges, Douglas (*with* Ishihara, Hajime) A definite constructive open mapping theorem? (English summary) **99f:46009**
Ishihara, Hajime *see* **Bridges, Douglas, 99f:46009**
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Santiago, M. L. *see* **Xavier, D. Antony; et al., 99k:46008**
Xavier, D. Antony (*with* Jose, Magie; Santiago, M. L.) Open mapping theorem in fuzzy normed spaces. (English summary) **99k:46008**
Yang, Bing (*with* Li, Ying) On the Br complete[ness]. (English and Chinese summaries)

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Azé, Dominique (*with* Chou, Chin Ch'êng; Penot, Jean-Paul) Subtraction theorems and approximate openness for multifunctions: topological and infinitesimal viewpoints. (English summary) **99m:49022**
Chou, Chin Ch'êng *see* **Azé, Dominique; et al., 99m:49022**
Du, Nai Lin (*with* Zeng, Xianwu) A note on the principal theorems in the theory of functional analysis. (English summary) **99m:46057**
Fernández López, Antonio[2] (*with* Mayoral, Fernando; Naranjo, Francisco; Paúl, Pedro J.) Weakly sequentially complete Fréchet spaces of integrable functions. (English summary) **99e:46031**
Galaz Fontes, Fernando How much has to be added in order to complete a normed space? (Spanish. Spanish summary) (*see* **99i:00016**)
Mayoral, Fernando *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Naranjo, Francisco *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Paúl, Pedro J. *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Penot, Jean-Paul *see* **Azé, Dominique; et al., 99m:49022**
Zeng, Xianwu *see* **Du, Nai Lin, 99m:46057**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47D15, 47D50]

Ansemil, José M. (*with* Floret, Klaus) The symmetric tensor product of a direct sum of locally convex spaces. (English summary) **99b:46003**
Floret, Klaus *see* **Ansemil, José M., 99b:46003**
Fourie, Jan H. Projections on operator duals. (English summary) **99m:46007**
Kumar, Rajeev *see* **Sharma, Srikant**
Sharma, Srikant (*with* Kumar, Rajeev) Invariance of the countability axioms under locally convex tensor product. (English summary)

Items with secondary classifications in 46A32

Ansemil, José M. (*with* Blasco, Fernando; Ponte, Socorro) Quasinormability and topologies on spaces of polynomials. (English summary) **99d:46068**
Bauval, Anne $RKK(X)$-nucléarité (d'après G. Skandalis). (English and French summaries) [$RKK(X)$-nuclearity (after G. Skandalis)] **99h:19007**
Blasco, Fernando *see* **Ansemil, José M.; et al., 99d:46068**
Díaz Alcaide, Juan Carlos (*with* Dineen, Seán) Polynomials on stable spaces. **99a:46082**
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Effros, Edward G. (*with* Webster, Corran) Operator analogues of locally convex spaces. (English summary) **99b:46081**
Honda, Tatsuhiro (*with* Miyagi, Mitsuhiro; Nishihara, Masaru; Yoshida, Mamoru) On the extension of polynomials of weak type. (English summary) **99a:46083**
Jha, Kamal Kant *see* **Kumar, Anil, 99e:46003**
Kumar, Anil (*with* Jha, Kamal Kant) On topological tensor products of strict inductive limits of locally convex spaces. (English summary) **99e:46003**
Miyagi, Mitsuhiro *see* **Honda, Tatsuhiro; et al., 99a:46083**
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Pap, Endre (*with* Swartz, Charles) Sequential continuity and boundedness for the adjoint operators. (English summary) **99i:47004**
Pombo, Dinamérico P., Jr. On modules of continuous linear mappings. (English summary) **99e:46059**
— Bilinear mappings on topological modules. (English summary) **99m:46120**
Ponte, Socorro *see* **Ansemil, José M.; et al., 99d:46068**
Schlüchtermann, Georg (*with* Schwingenschlögl, Florian) On noncommutative vector-valued integration. (English summary) **99j:46078**
Schwingenschlögl, Florian *see* **Schlüchtermann, Georg, 99j:46078**
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46A35 Summability and bases [see also 46B15]

Deheri, G. M. On strong basis. **99k:46009**
Lipecki, Zbigniew Remarks on independent sequences and dimension in topological linear spaces. (English summary) **99f:46010**

Items with secondary classifications in 46A35

Cho, Min-Hyung *see* **Li, Rong Lu; et al., 99i:46002**
Cui, Cheng Ri *see* **Li, Rong Lu; et al., 99i:46002**
Li, Rong Lu (*with* Cui, Cheng Ri; Cho, Min-Hyung) An invariant with respect to all admissible polar topologies. (Chinese. Chinese summary) **99i:46002**
Massopust, Peter R. Generalized multiresolution schemes. (English summary) **99c:42068**
Srivastava, P. D. Simultaneous automorphism on a complete linear metric space. (English summary) **99d:46034**

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Berdikulov, M. A. An existence theorem for a predual space for spaces with order unit. (Russian. English and Uzbek summaries) **99j:46007**
Buskes, Gerard (*with* Summerville, Jamie) On the biadjoint of Riesz-like homomorphisms on partially ordered vector spaces. (English summary) **99a:46008**
— (*with* van Rooij, Arnoud C. M.) Representation of Riesz spaces without the Axiom of Choice. (English summary) **99h:46003**
Díaz Alcaide, Juan Carlos (*with* Fernández López, Antonio[2]; Naranjo, Francisco) Fréchet AL-spaces have the Dunford-Pettis property. (English summary) **99j:46008**
Fernández López, Antonio[2] *see* **Díaz Alcaide, Juan Carlos; et al., 99j:46008**
Fujiwara, Takashi *see* **Komuro, Naoto, 99i:46003**
Gorokhova, S. G. A remark on projection properties of vector lattices. (English summary) **99f:46011**
Gupta, Manjul (*with* Kaushal, Kalika) o-similarity. **99e:46005**
— (*with* Kaushal, Kalika) Order decompositions. **99k:46010**
Gutman, A. E. Locally one-dimensional K-spaces. (Russian) **99b:46004**
Jakubík, Ján Sequential convergences in a vector lattice. (English summary) **99h:46004**
Kadelburg, Zoran *see* **Radenović, Stojan, 99e:46007**
Kaplan, Samuel On unbounded order convergence. (English summary) **99e:46006**
Kaushal, Kalika *see* **Gupta, Manjul, 99e:46005** *and* **99k:46010**
Komuro, Naoto (*with* Fujiwara, Takashi) Generalized supremum in partially ordered linear space and faces of the positive cone. (English summary) **99i:46003**
Kurc, W. Monotonicity, order smoothness and duality for convex functionals. (English summary) **99b:46005**
Muller, M. A. Pseudotopological Riesz spaces. (Afrikaans. English and Afrikaans summaries) **99a:46009**
Naranjo, Francisco *see* **Díaz Alcaide, Juan Carlos; et al., 99j:46008**
Olteanu, Octav Applications of the Mazur-Orlicz theorem. (English summary) **99m:46008**
Potepun, A. V. Condition for inducing topology in a vector lattice by the order completion. (English summary) **99j:46009**
Qiu, Qiu Sheng On the locally biorder-convex space and super-efficiency. (English summary) **99m:46009**
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Rozen, V. V. Embeddings of ordered sets into ordered linear spaces. (Russian) **99i:46004**
Scheffold, Egon Über die Arens-Triadjungierte Abbildung von Bimorphismen. (English summary) [On the Arens tri-adjoint mapping of bimorphisms] **99f:46012**
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Veksler, A. I. Finitely extendable functionals on vector lattices. (English summary) **99k:46011**
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Xiong, Hong Yun (*with* Rong, Xi Min) Riesz product spaces and representation theory. (Chinese. English and Chinese summaries) **99e:46008**
Zabreĭko, Petr Petrovich K-metric and K-normed linear spaces: survey. (English summary) **99a:46010**

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Bernau, S. J. (*with* Huijsmans, C. B.) The Schwarz inequality in Archimedean f-algebras. (English summary) **99e:46062**
Dăneţ, Rodica-Mihaela ★ Tehnici existenţiale şi de prelungire pentru operatori liniari. (Romanian) [Techniques for the existence and extension of linear operators] **99g:47084**
Huijsmans, C. B. *see* **Bernau, S. J., 99e:46062**
Kawasaki, Toshiharu Order Lebesgue integration in vector lattices. (English summary) **99g:46057**
Mosyagin, V. V. *see* **Veresova, A. T., 99d:47056**
Polyrakis, Ioannis A. Minimal lattice-subspaces. (English summary) **99m:46051**
Roth, Walter Locally convex cones as generalizations of locally convex vector spaces. (English summary) **99m:46004**
Veresova, A. T. (*with* Mosyagin, V. V.) On the theory of operators in bornological vector spaces with a cone. (Russian. English and Russian summaries) **99d:47056**

46A45 Sequence spaces (including Köthe sequence spaces) [see also 46B45]

Basarir, Metin *see* **Et, Mikail, 99j:46012**
Chalov, P. A. (*with* Terzioğlu, T.; Zakharyuta, V. P.) First type power Köthe spaces and m-rectangular invariants. (English summary) **99e:46009**
Cui, Cheng Ri A modified uniform convergence theorem for function series. (English summary) **99m:46010**
— *see also* **Wu, Jun De; et al.**
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Deheri, G. M. Dvoretzky-Rogers theorem for sequence spaces with $\sigma\mu$-topology. (English summary) **99a:46011**
Díaz Alcaide, Juan Carlos (*with* Domański, Paweł) Reflexive operators with domain in Köthe spaces. (English summary) **99j:46011**
— (*with* Miñarro, M. Angeles) Universal Köthe sequence spaces. (English summary) **99m:46011**
Djakov, P. B. (*with* Önal, S.; Terzioğlu, T.; Yurdakul, M.) Strictly singular operators and isomorphisms of Cartesian products of power series spaces. (English summary) **99a:46012**
Domański, Paweł *see* **Díaz Alcaide, Juan Carlos, 99j:46011**
Esi, Ayhan Some new sequence spaces defined by a sequence of moduli. (English and Turkish summaries) **99f:46013**
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Et, Mikail (*with* Basarir, Metin) On some new generalized difference sequence spaces. (English summary) **99j:46012**
Hudzik, Henryk *see* **Cui, Yun An, 99j:46010**
Kashirin, V. V. Characterization of subspaces of some Dragilev type power Köthe spaces. (English summary) **99f:46014**
— *see also* **Vakulenko, A. V., 99g:46005**
Lavrič, Boris Order convergence of order bounded sequences in Riesz spaces. (English summary) **99d:46004**
Li, Rong Lu *see* **Wu, Jun De; et al., 99e:46010**
Mangino, Elisabetta M. Fréchet valued co-echelon spaces. (English and Spanish summaries) **99g:46004**
Miñarro, M. Angeles *see* **Díaz Alcaide, Juan Carlos, 99m:46011**
Mukherjee, Samir Kumar Space S^n of vectors $\overrightarrow{AB}$ and vector-sequence spaces. (English summary)
Önal, S. *see* **Djakov, P. B.; et al., 99a:46012**
Qu, Wen Bo *see* **Wu, Jun De; et al., 99e:46010**
Ramanujan, M. S. (*with* Tanović-Miller, N.) A generalization of the Hausdorff-Young theorem. (English summary) **99m:46012**
Tanović-Miller, N. *see* **Ramanujan, M. S., 99m:46012**
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Vakulenko, A. V. (*with* Kashirin, V. V.) Subspaces and quotient spaces of spaces of power series of the first type. (Russian. English and Russian summaries) **99g:46005**
Waszak, Aleksander Modular spaces of sequences connected with some methods of summability. (English summary) **99a:46013**
Wei, Ziyi *see* **Wu, Jun De, 99e:46011**
Wu, Jun De (*with* Cui, Cheng Ri; Li, Rong Lu) A Hellinger-Toeplitz theorem for sequence spaces with the weak gliding hump property. (Chinese. Chinese summary)
— (*with* Li, Rong Lu; Qu, Wen Bo) A criterion for sequential spaces. (Chinese. English and Chinese summaries) **99e:46010**
— (*with* Wei, Ziyi) The topological structure of subseries convergence. (English summary) **99e:46011**
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Zhao, Jun Feng Some properties of the β-dual spaces of vector sequence spaces. (English summary) **99g:46006**

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Aiyub, M. *see* **Khan, F. M.; et al., 99h:40005**
Ansari, Amir Ali *see* **Mishra, Babban Prasad, 99f:40003**
Asma, Çiğdem (*with* Et, Mikail) On v-invariant sequence spaces. (English summary) **99m:40014**
Boos, J. (*with* Leiger, T.; Zeller, Karl) Consistency theory for SM-methods. **99i:40006**
Cheng, Wei[1] *see* **Wu, Jun De; et al., 99i:47051**
Çolak, Rifat (*with* Et, Mikail) On some generalized difference sequence spaces and related matrix transformations. (English summary) **99h:40012**
Cui, Yun An (*with* Pluciennik, Ryszard) Local uniform nonsquareness in Cesàro sequence spaces. (English summary) **99b:46025**
— *see also* **Ren, Li Wei[2], 99k:46030**
DeFranza, J. (*with* Fleming, D. J.; Rhoades, Billy E.) On the absolute Hardy-Bohr criteria. (English summary) **99m:40004**
Deheri, G. M. Nuclearity of G_∞-like and G_1-like spaces. (English summary) **99f:46005**
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Et, Mikail *see* **Esi, Ayhan, 99f:40009**; **Çolak, Rifat, 99h:40012** *and* **Asma, Çiğdem, 99m:40014**
Fleming, D. J. (*with* Ruckle, W. H.) Remarks on the Wilansky property. (English summary) **99k:40010**
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Grosse-Erdmann, Karl-Goswin ★ The blocking technique, weighted mean operators and Hardy's inequality. **99d:26024**
Jarrah, A. M. *see* **Tallafha, Abdalla, 99f:46006**
Jürimäe, E. Perfectness of reversible matrix maps. **99m:40015**
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Khan, F. M. (*with* Rahman, M. F.) Infinite matrices and Cesàro sequence spaces. (Russian summary) **99j:40016**
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Mishra, Babban Prasad (*with* Ansari, Amir Ali) On sequence spaces of scalars. (English summary) **99f:40003**
Pluciennik, Ryszard *see* **Cui, Yun An, 99b:46025**
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Ren, Li Wei[2] (*with* Cui, Yun An) Smooth points of the vector-valued sequence spaces $ss(E)$. (Chinese. English and Chinese summaries) **99k:46030**
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Ruiz, César On the structure of Rosenthal's space X_φ in Orlicz function spaces. (English summary) **99g:46035**
Savas, Ekrem On almost summable sequences and core of a sequence in non-Archimedean spaces. (English summary) **99e:40009**
— On some sequence spaces. (English summary) **99i:40012**
Suantai, Sutep Banach algebra of matrix transformations of sequence spaces. (English summary) **99h:40015**
Tallafha, Abdalla (*with* Jarrah, A. M.) Complementary subspaces isomorphic to a nuclear stable G_∞-space. (English summary) **99f:46006**
Waszak, Aleksander (*with* Żurakowski, Dariusz) Musielak-Orlicz spaces of sequences connected with strong summability. (English summary) **99m:40012**
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46A50 Compactness in topological linear spaces; angelic spaces, etc.

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Zhang, Wei Nian A characterization of sequential compactness for sets of smooth functions. (Chinese. English and Chinese summaries) **99d:46037**

46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

Choquet, Gustave Existence et unicité des représentations intégrales au moyen des points extrémaux dans les cônes convexes. [Existence and uniqueness of integral representations by means of extremal points in convex cones] (*see* **99f:00036**)
Godefroy, Gilles (*with* Li, Daniel) Strictly convex functions on compact convex sets and applications. **99m:46013**
Gritzmann, Peter (*with* Klee, Victor) Separation by hyperplanes in finite-dimensional vector spaces over Archimedean ordered fields. (English summary) **99k:46012**
Klee, Victor *see* **Gritzmann, Peter, 99k:46012**
Li, Daniel *see* **Godefroy, Gilles, 99m:46013**
Urbański, Ryszard Pairs of sets with convex union. (English summary) **99b:46007**
Ying, Ming Integral representations of operators and attainability of norms on the set of extreme points. (Chinese. English and Chinese summaries) **99f:46015**

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Borwein, Jonathan M. (*with* Vanderwerff, Jon D.) Convex functions on Banach spaces not containing l_1. (English summary) **99a:46020**
Bunce, L. J. (*with* Saitô, Kazuyuki; Wright, J. D. Maitland) A Dixmier-Schafer-Zhang theorem for operator algebras. (English summary) **99m:46147**

Saitô, Kazuyuki *see* **Bunce, L. J.; et al., 99m:46147**
Vanderwerff, Jon D. Mazur intersection properties for compact and weakly compact convex sets. (English summary) **99a:46026**
— *see also* **Borwein, Jonathan M., 99a:46020**
Wright, J. D. Maitland *see* **Bunce, L. J.; et al., 99m:46147**

46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

Items with secondary classifications in 46A70

Fundo, Mishel The dentability in the spaces with two topologies. (English summary) **99e:46001**

46A80 Modular spaces

Bardaro, Carlo (*with* Musielak, Julian; Vinti, Gianluca) On the ergodic theorem in some spaces of random variables. **99d:46005**
Liskowski, Marian (*with* Musielak, Julian) On best approximation in modular spaces. (English summary) **99a:46014**
Musielak, Julian *see* **Liskowski, Marian, 99a:46014** *and* **Bardaro, Carlo; et al., 99d:46005**
Vinti, Gianluca *see* **Bardaro, Carlo; et al., 99d:46005**

Items with secondary classifications in 46A80

Alghoussein, Ahmad *see* **Hassan, Mouna, 99d:46101**
Bardaro, Carlo (*with* Vinti, Gianluca; Musielak, Julian) Nonlinear operators of integral type in some function spaces. (English summary) **99a:47111**
— (*with* Vinti, Gianluca) On the order of modular approximation for nets of integral operators in modular Lipschitz classes. (English summary) **99m:41034**
Cui, Yun An (*with* Hudzik, Henryk) On the uniform Opial property in some modular sequence spaces. (English summary) **99j:46010**
Hassan, Mouna (*with* Alghoussein, Ahmad) A note on modular spaces over a field with valuation. (English summary) **99d:46101**
Hudzik, Henryk *see* **Cui, Yun An, 99j:46010**
Kozlowski, Wojciech M. ★ Modular function spaces. (English summary) **99d:46043**
Musielak, Anna (*with* Musielak, Julian) On nonlinear integral operators in function spaces. (English summary) **99m:47086**
Musielak, Julian *see* **Bardaro, Carlo; et al., 99a:47111** *and* **Musielak, Anna, 99m:47086**
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46A99 None of the above, but in this section

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Kumar, Abhay On balanced (circled) extension of a set. (English summary)
Sunder, V. S. Some aspects of convexity. **99h:46005**

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Cel, Jarosław Sets which are almost starshaped. (English summary) **99i:52007**
Dinh Huy Hoang Finite proper holomorphic surjections and linear topological invariants $(\widetilde{\Omega})$ and $(\widehat{\Omega})$. (English summary) **99j:46050**
Jourani, Abderrahim *see* **Amahroq, T.; et al., 99h:49021**
Kemper, Ralf Positively convex spaces. (English summary) **99m:46165**
— Injective and epi-projective objects in categories of convex spaces. (English summary) **99m:46166**
Malčeski, Risto Strong n-convex n-normed spaces. (English and Macedonian summaries) **99m:46059**
Manhas, J. S. *see* **Singh, Raj Kishor, 99k:47006**
Singh, Raj Kishor (*with* Manhas, J. S.) Invertibility of operators on locally convex spaces. **99k:47006**
Thibault, L. *see* **Amahroq, T.; et al., 99h:49021**
Żelazko, W. On some old problems and new questions in topological algebras. **99f:46066**

46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

Items with secondary classifications in 46Bxx

Bollobás, Béla The work of William Timothy Gowers. **99k:01048**
(Gowers, William Timothy) *see* **Bollobás, Béla, 99k:01048**
Megginson, Robert E. ★ An introduction to Banach space theory. (English summary) **99k:46002**

46B03 Isomorphic theory (including renorming) of Banach spaces

Cilia, Raffaella About the properties (V) and (R.D.P.) in injective tensor products. (English summary) **99k:46013**
Del Campo Cañizares, S. *see* **Sánchez Pérez, Enrique A., 99a:46016**
Deville, Robert (*with* Fonf, Vladimir; Hájek, Petr[2]) Analytic and polyhedral approximation of convex bodies in separable polyhedral Banach spaces. (English summary) **99h:46006**
Emmanuele, G. (*with* Hensgen, W.) Property (V) of Pelczyński in projective tensor products. (English summary) **99k:46014**
Fabian, Marián (*with* Hájek, Petr[2]; Zizler, Václav) Uniform Eberlein compacta and uniformly Gâteaux smooth norms. (English summary) **99m:46014**
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Gowers, William Timothy A remark about the scalar-plus-compact problem. (English summary) **99m:46015**
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Hu, Zhibao (*with* Moors, Warren B.; Smith, Mark A.) On a Banach space without a weak mid-point locally uniformly rotund norm. (English summary) **99a:46015**
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Sánchez Pérez, Enrique A. (*with* Del Campo Cañizares, S.) An estimate of the Banach-Mazur distances between Hilbert spaces and Banach spaces. (English summary) **99a:46016**
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Items with secondary classifications in 46B03

Burnecki, Maciej Invertible transformations acting on Orlicz spaces. (English summary) **99a:46044**
Díaz Madrigal, Santiago (*with* Mayoral, Fernando) Compactness in measure and the sequential Bourgain property. (English summary) **99f:46038**
Farmer, Jeff D. Fibers over the sphere of a uniformly convex Banach space. **99h:46063**
Lusky, Wolfgang Three space properties and basis extensions. (English summary) **99m:46023**
Mayoral, Fernando *see* **Díaz Madrigal, Santiago, 99f:46038**
Shi, Feng[1] Basic sequences and bounded linear operators. (Chinese. English and Chinese summaries) **99f:46016**

46B04 Isometric theory of Banach spaces

Basu, Sudeshna (*with* Rao, T. S. S. R. K.) Some stability results for asymptotic norming properties of Banach spaces. **99j:46013**
Cabello Sánchez, Félix Regards sur le problème des rotations de Mazur. [Observations about the Mazur rotation problem] **99m:46017**
Godefroy, Gilles (*with* Kalton, Nigel J.; Lancien, Gilles) L'espace de Banach c_0 est déterminé par sa métrique. (English and French summaries) [The Banach space c_0 is determined by its metric] **99h:46007**
Kalton, Nigel J. *see* **Godefroy, Gilles; et al., 99h:46007**
Lancien, Gilles *see* **Godefroy, Gilles; et al., 99h:46007**
Li, Chi-Kwong (*with* So, Wasin) Isometric isomorphisms between normed spaces. (English summary) **99k:46015**
Lyubich, Yu. I. (*with* Shatalova, O. A.) Almost Euclidean planes in l_p^n. (Russian) **99j:46014**
Rao, T. S. S. R. K. *see* **Basu, Sudeshna, 99j:46013**
Shatalova, O. A. *see* **Lyubich, Yu. I., 99j:46014**
So, Wasin *see* **Li, Chi-Kwong, 99k:46015**

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Acosta, María D. On multilinear mappings attaining their norms. (English summary) **99k:46025**
Androulakis, George A subsequence characterization of sequences spanning isomorphically polyhedral Banach spaces. (English summary) **99b:46008**
Delbaen, Freddy (*with* Jarchow, Hans; Pełczyński, A.) Subspaces of L_p isometric to subspaces of l_p. (English summary) **99m:46071**
Font, Juan J. Linear isometries between certain subspaces of continuous vector-valued functions. **99h:46059**
Jarchow, Hans *see* **Delbaen, Freddy; et al., 99m:46071**
Pełczyński, A. *see* **Delbaen, Freddy; et al., 99m:46071**
Randrianantoanina, Beata 1-complemented subspaces of spaces with 1-unconditional bases. (English summary) **99b:46009**

46B07 Local theory of Banach spaces

Gordon, Yehoram (*with* Junge, Marius) Volume formulas in L_p-spaces. (English summary) **99m:46018**
— (*with* Junge, Marius; Nielsen, N. J.) The relations between volume ratios and new concepts of GL constants. (English summary) **99m:46019**
Junge, Marius *see* **Gordon, Yehoram, 99m:46018** *and* **99m:46019**
Mustafa, Octavian *see* **Popescu, Luminiţa**
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Popescu, Luminiţa (*with* Mustafa, Octavian) On the equivalence of norms on finite-dimensional linear spaces. (English summary)

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García-Roig, J.-L. On the group of isometries and a system of functional equations of a real normed plane. **99e:46015**
Giannopoulos, A. A. (*with* Milman, Vitali D.) Mean width and diameter of proportional sections of a symmetric convex body. **99c:52006**
Koldobsky, Alexander Intersection bodies in $\mathbf{R}^4$. (English summary) **99j:52013**
— Second derivative test for intersection bodies. (English summary) **99j:52014**
Kuperberg, Greg Another low-technology estimate in convex geometry. (English summary) **99k:52006**
Li, Chi-Kwong (*with* So, Wasin) Isometric isomorphisms between normed spaces. (English summary) **99k:46015**
Linial, Nathan (*with* Magen, Avner; Saks, Michael E.) Low distortion Euclidean embeddings of trees. (English summary) **99i:46009**

Litvak, A. E. (*with* Milman, Vitali D.; Pajor, A.) The covering numbers and "low M^*-estimate" for quasi-convex bodies. (English summary) **99h:52022**
Magen, Avner *see* **Linial, Nathan; et al., 99i:46009**
Martínez-Abejón, Antonio An elementary proof of the principle of local reflexivity. (English summary) **99h:46008**
Milman, Vitali D. Surprising geometric phenomena in high-dimensional convexity theory. (English summary) **99j:52001**
— *see also* **Giannopoulos, A. A., 99c:52006** *and* **Litvak, A. E.; et al., 99h:52022**
Ostrovskii, M. I. Projections in normed linear spaces and sufficient enlargements. (English summary) **99h:46019**
Pajor, A. *see* **Litvak, A. E.; et al., 99h:52022**
Rudelson, M. Contact points of convex bodies. (English summary) **99d:52006**
Saks, Michael E. *see* **Linial, Nathan; et al., 99i:46009**
So, Wasin *see* **Li, Chi-Kwong, 99k:46015**
Terenzi, Paolo A positive answer to the basis problem. (English summary) **99g:46010**

46B08 Ultraproduct techniques in Banach space theory [see also 46M07]

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González, Manuel (*with* Martínez-Abejón, Antonio) Ultrapowers and semi-Fredholm operators. (Italian summary) **99e:47019**
Iovino, José Types on stable Banach spaces. (English summary) **99d:46013**
Martínez-Abejón, Antonio *see* **González, Manuel, 99e:47019**
Raynaud, Yves Ultrapowers of Köthe function spaces. (English summary) **99b:46039**
— Ultrapowers of Calderón-Lozanovskii interpolation spaces. (English summary) **99d:46098**

46B09 Probabilistic methods in Banach space theory [see also 60Bxx]

Piasecki, Marek A characterization of complex $\mathscr{UMD}$ Banach spaces via tangent martingales. **99d:46006**

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46B10 Duality and reflexivity [see also 46A25]

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Saint Raymond, J. On a conjecture of L. Veselý. (English summary) **99a:46017**
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Cengiz, B. The dual of the Bochner space $L^p(\mu, E)$ for arbitrary μ. (English summary) **99k:46061**
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Cartier, Pierre Classes de formes bilinéaires sur les espaces de Banach. [Classes of bilinear forms on Banach spaces] (*see* **99f:00038**)
Cho, Chong-Man (*with* Kim, Beom Sool) A note on M-ideals of compact operators. (English summary) **99k:46026**
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Jaramillo, Jesús Angel (*with* Prieto Yerro, Ángeles; Zalduendo, Ignacio) The bidual of the space of polynomials on a Banach space. **99a:46030**
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Li, Chong[1] A note on: "Sunset in spaces of bounded linear operators" [Chinese J. Contemp. Math. **16** (1995), no. 1, 49–61; MR 97j:46014]. (English summary) **99h:46027**
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— *see also* **Aron, Richard M.; et al.**, **99f:46025**

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Cabello Piñar, Juan Carlos (*with* Nieto, Eduardo; Oja, Eve) On ideals of compact operators satisfying the $M(r, s)$-inequality. (English summary) **99f:46018**
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Floret, Klaus Factorization of finite-rank operators in Banach operator ideals. (English summary) **99g:47110**
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— (*with* Martínez-Abejón, Antonio) Lifting unconditionally converging series and semigroups of operators. (English summary) **99g:47021**
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König, Hermann H. (*with* Meyer, Mathieu; Pajor, A.) The isotropy constants of the Schatten classes are bounded. **99j:52003**
Kumar, Ajay[1] (*with* Sinclair, Allan M.) Equivalence of norms on operator space tensor products of C^*-algebras. (English summary) **99a:46103**
Le Merdy, Christian The similarity problem for bounded analytic semigroups on Hilbert space. (English summary) **99h:47048**
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46B40 Ordered normed spaces [see also 46A40, 46B42]

Berdikulov, M. A. (*with* Zhuraev, I. M.) Normal positive functionals on spaces with an order unit. (Russian. English and Uzbek summaries) **99f:46027**
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Polyrakis, Ioannis A. Minimal lattice-subspaces. (English summary) **99m:46051**
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Johnson, William B. Extensions of c_0. (English summary) **99k:46017**
Kawasaki, Toshiharu Order Lebesgue integration in vector lattices. (English summary) **99g:46057**
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Cabrera, I. J. (*with* Sadarangani, Kishin B.) On the modulus of noncompact convexity in Banach sequence spaces. (English summary) **99m:46052**
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— (*with* Hudzik, Henryk; Meng, C.) On some local geometry of Orlicz sequence spaces equipped with the Luxemburg norm. (English summary) **99e:46028**
— (*with* Hudzik, Henryk; Płuciennik, Ryszard) On some uniform convexities and smoothness in certain sequence spaces. (English summary) **99m:46054**
— (*with* Hudzik, Henryk) Maluta's coefficient and Opial's properties in Musielak-Orlicz sequence spaces equipped with the Luxemburg norm. **99k:46029**
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46B70 Interpolation between normed linear spaces [see also 46M35]

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Berkolaïko, G. M. On a functional of Peetre. (Russian. Russian summary) **99a:46133**
Casini, Emanuele (*with* Salvatori, Maura) Complex interpolation and (n, δ)-convexity. (Italian summary) **99f:46107**
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Prus, Stanisław *see* **Kutzarova, Denka; et al., 99e:46100**
Salvatori, Maura *see* **Casini, Emanuele, 99f:46107**
Shvartsman, Pavel A geometrical approach to the K-divisibility problem. (English summary) **99d:46100**

46B99 None of the above, but in this section

Calvert, Bruce Strictly plus functionals on a super-additive normed linear space. (English summary)
Castillo, Jesús M. F. (*with* González, Manuel) ★ Three-space problems in Banach space theory. **99a:46034**
Chaatit, F. On simple DBSC functions. (English summary) **99d:46029**
Du, Nai Lin (*with* Zeng, Xianwu) A note on the principal theorems in the theory of functional analysis. (English summary) **99m:46057**
González, Manuel *see* **Castillo, Jesús M. F., 99a:46034**
Huang, Chun Chao Quasiconvex spaces. (Chinese. English and Chinese summaries) **99c:46018**
Im, Sung Mo (*with* Lee, Sang Han) A characterization of reflexivity of normed almost linear spaces. (English summary) **99i:46011**
Lee, Sang Han *see* **Im, Sung Mo, 99i:46011**
Malčeski, Aleksa l^∞ as n-normed space. (English and Macedonian summaries) **99m:46058**
Malčeski, Risto Strong n-convex n-normed spaces. (English and Macedonian summaries) **99m:46059**
Zeng, Xianwu *see* **Du, Nai Lin, 99m:46057**

Items with secondary classifications in 46B99

Ageev, S. M. (*with* Bogatyĭ, Semen A.; Repovš, Dušan D.; Fabel, Paul) Extensors of noncompact Lie groups. (Russian)
Alimov, A. R. Chebyshev compact sets on the plane. (Russian) **99m:41044**
— Solstice property for a system of 2-spaces. (English summary) **99d:41061**
de Blasi, Francesco S. (*with* Myjak, Józef) On a generalized best approximation problem. (English summary) **99i:41034**
Bogatyĭ, Semen A. *see* **Ageev, S. M.; et al.**
Bu, Shangquan (*with* Clément, Philippe; Guerre-Delabrière, Sylvie) Regularity of pairs of positive operators. **99i:47019**
Castaing, Charles (*with* Ezzaki, Fatima) Convergences for convex weakly compact random sets in B-convex reflexive Banach spaces. (English summary) **99g:60010**
Cho, Yeol Je *see* **Elumalai, S.; et al., 99j:46003**
Cieslik, Dietmar The Steiner ratio of finite-dimensional L_p-spaces. (English summary) **99m:90149**
Clément, Philippe *see* **Bu, Shangquan; et al., 99i:47019**
Cobzaş, Ştefan (*with* Mustăţa, Costică) Extension of bilinear operators and best approximation in 2-normed spaces. **99d:41063**
Dragomir, Sever Silvestru (*with* Koliha, J. J.) The mapping $v_{x,y}$ in normed linear spaces with applications to inequalities in analysis. (English summary) **99m:46061**
Elumalai, S. (*with* Cho, Yeol Je; Kim, Seong Sik) Best approximation sets in linear 2-normed spaces. (English summary) **99j:46003**
Ezzaki, Fatima *see* **Castaing, Charles, 99g:60010**
Fabel, Paul *see* **Ageev, S. M.; et al.**
Favorov, S. Yu. A generalized Kahane-Khinchin inequality. (English summary) **99b:60028**
Gouda, Y. Gh. On the cyclic and dihedral cohomology of Banach spaces. (English summary) **99a:46132**
Guerre-Delabrière, Sylvie *see* **Bu, Shangquan; et al., 99i:47019**
Ji, Dong Hai (*with* Zhang, Jing; Lu, Yan Ming) A condition for β^*-normability of a topological linear space. (Chinese. English and Chinese summaries) **99j:46002**
Jose, Magie *see* **Xavier, D. Antony; et al., 99k:46008**
Kim, Seong Sik *see* **Elumalai, S.; et al., 99j:46003**
Koliha, J. J. *see* **Dragomir, Sever Silvestru, 99m:46061**
Kulesza, John S. The dimensional of a subset of l_p as p varies. (English summary) **99e:54026**
Lafuerza Guillén, Bernardo (*with* Rodríguez Lallena, José Antonio; Sempi, Carlo) Some classes of probabilistic normed spaces. (English and Italian summaries) **99d:46103**
Lu, Yan Ming *see* **Ji, Dong Hai; et al., 99j:46002**
McPhail, Carolyn E. *see* **Morris, Sidney A., 99j:22003**
Morris, Sidney A. (*with* McPhail, Carolyn E.) The variety of topological groups generated by the class of all Banach spaces. (English summary) **99j:22003**
Mustăţa, Costică *see* **Cobzaş, Ştefan, 99d:41063**
Myjak, Józef *see* **de Blasi, Francesco S., 99i:41034**
Petrakis, Minos A. Discrepancy norms on the space $M[0, 1]$ of Radon measures. **99k:46040**
Rassias, Themistocles M. Properties of isometries and approximate isometries. (English summary) **99f:51028**
Repovš, Dušan D. *see* **Ageev, S. M.; et al.**
Rodríguez Lallena, José Antonio *see* **Lafuerza Guillén, Bernardo; et al., 99d:46103**
Santiago, M. L. *see* **Xavier, D. Antony; et al., 99k:46008**
Sempi, Carlo *see* **Lafuerza Guillén, Bernardo; et al., 99d:46103**
Skalyga, V. I. Analogues of Markov and Bernstein inequalities on convex bodies in Banach spaces. (Russian. Russian summary) **99f:46065**
Sõrmus, Tamara Some properties of generalized summability methods in Banach spaces. (English summary) **99c:40011**
Xavier, D. Antony (*with* Jose, Magie; Santiago, M. L.) Open mapping theorem in fuzzy normed spaces. (English summary) **99k:46008**
Zhan, Da Peng Isometric approximation problems from finite-dimensional normed spaces into $C(\Omega)$. (Chinese. English and Chinese summaries) **99a:47027**
Zhang, Jing *see* **Ji, Dong Hai; et al., 99j:46002**
Zhou, Feng[2] A remark on duality for the sum of convex functions in general Banach spaces. (English summary) **99k:49077**

46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

Balan, Radu Equivalence relations and distances between Hilbert frames. (English summary) **99j:46025**

Casazza, Peter G. (*with* Christensen, Ole) Frames and Schauder bases. (English summary) **99d:46030**
— (*with* Christensen, Ole) Riesz frames and approximation of the frame coefficients. (English summary) **99g:46016**
Christensen, Ole *see* **Casazza, Peter G., 99d:46030** *and* **99g:46016**
Dragomir, Sever Silvestru (*with* Sándor, József) On Bessel's and Gram's inequalities in pre-Hilbertian spaces. **99a:46035**
Li, Shao Kuan On the dimensions of subspaces of Hilbert spaces. (Chinese. Chinese summary)
Sándor, József *see* **Dragomir, Sever Silvestru, 99a:46035**
Suzuki, Hideo[4] Delone sets and Riesz basis. (English summary) **99a:46036**
Wu, Zhao Rong Some properties of frames in Hilbert space. (Chinese. English and Chinese summaries)

Items with secondary classifications in 46C05

Cabello Sánchez, Félix Twisted Hilbert spaces. (English summary) **99m:46030**
Chmieliński, Jacek (*with* Rätz, Jürg) Orthogonality equation almost everywhere. (English summary) **99e:39087**
Cho, Yeol Je *see* **White, Albert George, Jr.; et al., 99e:46023** *and* **Dragomir, Sever Silvestru; et al., 99e:46029**
Dragomir, Sever Silvestru (*with* Cho, Yeol Je; Kim, Seong Sik) Superadditivity and monotonicity of 2-norms generated by inner products and related results. (English summary) **99e:46029**
Goebel, Rafał Sufficient condition for stability of an L^2-angle. (English summary) **99a:46040**
Grząślewicz, Ryszard Vertices in $\mathscr{L}(H)$. (English summary) **99a:47068**
Kim, Seong Sik *see* **White, Albert George, Jr.; et al., 99e:46023** *and* **Dragomir, Sever Silvestru; et al., 99e:46029**
Longstaff, W. E. (*with* Panaia, Oreste) On complementary subspaces of Hilbert space. (English summary) **99a:47070**
Nguyen To Nhu (*with* Sisson, Paul) A rigid space homeomorphic to Hilbert space. (English summary) **99k:54028**
Ochsenius, Maria H. (*with* Schikhof, Wilhelmus H.) Norm Hilbert spaces. (English summary) **99k:46132**
Ovchinnikov, P. G. How one can define the set of all Π_A by means of $\leq$. **99m:81019**
Panaia, Oreste *see* **Longstaff, W. E., 99a:47070**
Rätz, Jürg *see* **Chmieliński, Jacek, 99e:39087**
Schikhof, Wilhelmus H. *see* **Ochsenius, Maria H., 99k:46132**
Schwartz, Laurent Sous-espaces hilbertiens et antinoyaux associés. (French summary) [Hilbert spaces and associated antikernels] (*see* **99f:00039**)
Sisson, Paul *see* **Nguyen To Nhu, 99k:54028**
Stöckler, Joachim The general structure of multivariate affine frames. (English summary) **99c:41071**
Suantai, Sutep Representation of bounded linear operators and bounded bilinear operators on Hilbert spaces. (English summary) **99j:47041**
Takahashi, Yasuji *see* **Takahasi, Sin-Ei, (99f:47002)**
Takahasi, Sin-Ei (*with* Takahashi, Yasuji) Some convexity constants related to Hlawka inequalities in Banach spaces. (Japanese) (*see* **99f:47002**)
White, Albert George, Jr. (*with* Cho, Yeol Je; Kim, Seong Sik) Heron's formula in inner product spaces. (English summary) **99e:46023**

46C15 Characterizations of Hilbert spaces

Alsina, Claudi On a generalized Lagrange's identity characterizing inner product spaces. (English summary) **99d:46031**
Benítez, Carlos (*with* Fernández García-Hierro, Manuel; Soriano, María L.) On the norm of the product of linear functionals. (English summary) **99h:46032**
Fernández García-Hierro, Manuel *see* **Benítez, Carlos; et al., 99h:46032**
Kannappan, Palaniappan On inner product spaces. IV. **99g:46018**
— On inner product spaces. III. (English summary) **99g:46017**
Mok, Jinsik A six-point characterization of Hilbert spaces. (English summary) **99j:46026**
Navarro, M. A. Some characterizations of finite-dimensional Hilbert spaces. (English summary) **99d:46032**
Soriano, María L. *see* **Benítez, Carlos; et al., 99h:46032**

Items with secondary classifications in 46C15

Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, Maria Santos) Some remarkable lines of triangles in real normed spaces and characterizations of inner product structures. (English summary) **99b:39031**
— (*with* Cruells, P.; Tomás, Maria Santos) Isosceles trapezoids, norms and inner products. (English summary) **99m:46060**
Borodin, P. A. Quasi-orthogonal sets and conditions for the Hilbert property of a Banach space. (Russian. Russian summary) **99a:46019**
Cabello Sánchez, Félix Regards sur le problème des rotations de Mazur. [Observations about the Mazur rotation problem] **99m:46017**
Cruells, P. *see* **Alsina, Claudi; et al., 99m:46060**
Del Campo Cañizares, S. *see* **Sánchez Pérez, Enrique A., 99a:46016**
Dvurečenskij, Anatolij Solér's theorem and characterization of inner product spaces. (English summary) **99g:81014**
García-Roig, J.-L. On the group of isometries and a system of functional equations of a real normed plane. **99e:46015**
Guijarro Carranza, Piedad (*with* Tomás, Maria Santos) Perpendicular bisectors and orthogonality. (English summary) **99a:39059**
— *see also* **Alsina, Claudi; et al., 99b:39031**
Huang, Chun Chao Quasiconvex spaces. (Chinese. English and Chinese summaries) **99c:46018**
Mayet, René Some characterizations of the underlying division ring of a Hilbert lattice by automorphisms. (English summary) **99f:81020**
Sánchez Pérez, Enrique A. (*with* Del Campo Cañizares, S.) An estimate of the Banach-Mazur distances between Hilbert spaces and Banach spaces. (English summary) **99a:46016**
Skof, Fulvia On some alternative quadratic equations in inner-product spaces. (Italian summary) **99k:39072**
Skorik, A. (*with* Zaidenberg, Mikhail G.) On isometric reflections in Banach spaces. (English, Russian and Ukrainian summaries) **99a:46025**
Tomás, Maria Santos *see* **Guijarro Carranza, Piedad, 99a:39059; Alsina, Claudi; et al., 99b:39031** *and* **99m:46060**
Zaidenberg, Mikhail G. *see* **Skorik, A., 99a:46025**

46C20 Spaces with indefinite inner product

Duma, Adrian On the isometric theory of indefinite inner product spaces.
Tian, Li A representation for linear functionals on a space with indefinite metric. (Chinese. English and Chinese summaries)

Items with secondary classifications in 46C20

Alpay, Daniel (*with* Dijksma, Aad; Rovnyak, James; de Snoo, Hendrik S. V.) Reproducing kernel Pontryagin spaces. (English summary) **99g:46028**
— A structure theorem for reproducing kernel Pontryagin spaces. (English summary) **99k:46037**
Azizov, T. Ya. (*with* Dijksma, Aad) Contractive linear relations in Pontryagin spaces. (English summary) **99h:47042**
Cho, Yeol Je *see* **Dragomir, Sever Silvestru; et al., 99e:46029**
Constantinescu, Tiberiu (*with* Gheondea, Aurelian) Representations of Hermitian kernels by means of Kreĭn spaces. (English summary) **99c:47013**
Dijksma, Aad *see* **Alpay, Daniel; et al., 99g:46028** *and* **Azizov, T. Ya., 99h:47042**
Dragomir, Sever Silvestru (*with* Cho, Yeol Je; Kim, Seong Sik) Superadditivity and monotonicity of 2-norms generated by inner products and related results. (English summary) **99e:46029**
Gheondea, Aurelian *see* **Constantinescu, Tiberiu, 99c:47013**
Kim, Seong Sik *see* **Dragomir, Sever Silvestru; et al., 99e:46029**
Mnatsakanova, M. N. (*with* Morchio, Gianni; Strocchi, Franco; Vernov, Yu. S.) Irreducible representations of the Heisenberg algebra in Krein spaces. (English summary) **99j:81080**
Morchio, Gianni *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Rapisarda, Paolo (*with* Willems, Jan C.) The subspace Nevanlinna interpolation problem and the most powerful unfalsified model. (English summary) **99b:93027**
Rovnyak, James *see* **Alpay, Daniel; et al., 99g:46028**
de Snoo, Hendrik S. V. *see* **Alpay, Daniel; et al., 99g:46028**
Strocchi, Franco *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Vernov, Yu. S. *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Wang, Jing Yu *see* **Yang, Hai Tao; et al.**
Wang, Shu Zhong *see* **Yang, Hai Tao; et al.**
Willems, Jan C. *see* **Rapisarda, Paolo, 99b:93027**
Yang, Hai Tao (*with* Wang, Jing Yu; Wang, Shu Zhong) Measurable operator fields of π spaces. (Chinese. English and Chinese summaries)

46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

Alsina, Claudi (*with* Cruells, P.; Tomás, Maria Santos) Isosceles trapezoids, norms and inner products. (English summary) **99m:46060**
Cho, Yeol Je *see* **Dragomir, Sever Silvestru; et al., 99e:46029**
Cruells, P. *see* **Alsina, Claudi; et al., 99m:46060**
Dragomir, Sever Silvestru (*with* Koliha, J. J.) The mapping $v_{x,y}$ in normed linear spaces with applications to inequalities in analysis. (English summary) **99m:46061**
— (*with* Cho, Yeol Je; Kim, Seong Sik) Superadditivity and monotonicity of 2-norms generated by inner products and related results. (English summary) **99e:46029**
Kim, Seong Sik *see* **Dragomir, Sever Silvestru; et al., 99e:46029**
Koliha, J. J. *see* **Dragomir, Sever Silvestru, 99m:46061**
Miličič, Pavle Resolvability of g-orthogonality in normed spaces. (English summary) **99m:46062**
Tomás, Maria Santos *see* **Alsina, Claudi; et al., 99m:46060**
Zhou, Lei The Tapia semi-inner product and geometric properties of Banach spaces. (Chinese. English and Chinese summaries) **99j:46027**

Items with secondary classifications in 46C50

Cho, Eui Whan (*with* Kim, Young Key; Shin, Chae Seob) Fuzzy semi-inner-product space. (English summary)
Cho, Yeol Je *see* **White, Albert George, Jr.; et al., 99e:46023**
Kim, Seong Sik *see* **White, Albert George, Jr.; et al., 99e:46023**
Kim, Young Key *see* **Cho, Eui Whan; et al.**
Malčeski, Aleksa l^∞ as n-normed space. (English and Macedonian summaries) **99m:46058**
Malčeski, Risto Strong n-convex n-normed spaces. (English and Macedonian summaries) **99m:46059**
Shin, Chae Seob *see* **Cho, Eui Whan; et al.**
White, Albert George, Jr. (*with* Cho, Yeol Je; Kim, Seong Sik) Heron's formula in inner product spaces. (English summary) **99e:46023**

46C99 None of the above, but in this section

Molnár, Lajos An algebraic approach to Wigner's unitary-antiunitary theorem. (English summary) **99k:46031**
Šemrl, Peter Approximately linear functionals on Hilbert spaces. (English summary) **99g:46019**

Items with secondary classifications in 46C99

Baron, Karol (*with* Kucia, Anna) On regularity of functions connected with orthogonal additivity. (English summary) **99m:39022**

— (*with* Volkmann, Peter) On orthogonally additive functions. (English summary) **99c:39034**
Casazza, Peter G. (*with* Christensen, Ole) Frames containing a Riesz basis and preservation of this property under perturbations. (English summary) **99i:42043**
Chmieliński, Jacek On the stability of isometric operators for Hilbert spaces. **99b:47105**
Christensen, Ole *see* **Casazza, Peter G., 99i:42043**
Dragomir, Sever Silvestru (*with* Mabizela, Sizwe) Functional inequalities and best approximation. (English summary) **99h:41039**
Elsner, Ludwig (*with* Han, Lu; Koltracht, Israel; Neumann, Michael; Zippin, M.) On a polygon equality problem. (English summary) **99d:41024**
Han, Lu *see* **Elsner, Ludwig; et al., 99d:41024**
Ismagilov, R. S. Ultrametric spaces and related Hilbert spaces. (Russian. Russian summary) **99f:46110**
Karlov, M. I. Chebyshev layer of manifolds in a Hilbert space. (Russian) **99k:41047**
Keller, Hans Arwed Constructing orthomodular lattices by pasting projection lattices. (English summary) **99m:06018**
Koltracht, Israel *see* **Elsner, Ludwig; et al., 99d:41024**
Kucia, Anna *see* **Baron, Karol, 99m:39022**
Mabizela, Sizwe *see* **Dragomir, Sever Silvestru, 99h:41039**
Miller, Arnold W. (*with* Steprāns, Juris) Orthogonal families of real sequences. **99i:03058**
Mosyagin, V. V. *see* **Veresova, A. T.**
Neumann, Michael *see* **Elsner, Ludwig; et al., 99d:41024**
Ovchinnikov, V. I. Coherently nuclear operators in couples of Hilbert spaces. (Russian. Russian summary) **99m:46172**
Steprāns, Juris *see* **Miller, Arnold W., 99i:03058**
Torgašev, Aleksandar Tangent spheres of a Hilbert space simplex. (English and Serbo-Croatian summaries) **99b:52018**
Tsar'kov, I. G. Smoothing of functions on the Hilbert ball. (Russian) **99m:41057**
Veresova, A. T. (*with* Mosyagin, V. V.) Spaces with a multi-inner product in the theory of differential equations. (Russian. English and Russian summaries)
Volkmann, Peter *see* **Baron, Karol, 99c:39034**
Zalik, Richard A. A class of quasi-orthogonal wavelet bases. (English summary) **99e:42053**
Zippin, M. *see* **Elsner, Ludwig; et al., 99d:41024**

46Exx Linear function spaces and their duals [see also 30H05, 32E25, 46F05; for function algebras, see 46J10]

Items with secondary classifications in 46Exx
Van Lancker, P. Clifford analysis on the sphere. (English summary) **99i:30068**

46E05 Lattices of continuous, differentiable or analytic functions

Items with secondary classifications in 46E05
Jiménez Sevilla, M. *see* **Suárez Granero, Antonio; et al., 99b:46021**
Moreno, J. P. *see* **Suárez Granero, Antonio; et al., 99b:46021**
Suárez Granero, Antonio (*with* Jiménez Sevilla, M.; Moreno, J. P.) Convex sets in Banach spaces and a problem of Rolewicz. (English summary) **99b:46021**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

Abanin, A. V. (*with* Tishchenko, E. S.) Spaces of ultra-differentiable functions, and a generalization of the Paley-Wiener-Schwartz theorem. (Russian. English and Russian summaries)
Abul-Ez, M. A. Bessel polynomial expansions in spaces of holomorphic functions. (English summary) **99c:46019**
Almendra, Genaro On the spectra of invariant spaces of smooth functions. (Spanish. Spanish summary) **99i:46012**
Beckenstein, Edward *see* **Narici, Lawrence, 99k:46032**
Bierstedt, Klaus D. (*with* Bonet, José; Taskinen, Jari) Associated weights and spaces of holomorphic functions. (English summary) **99a:46037**
Bonet, José *see* **Bierstedt, Klaus D.; et al., 99a:46037**
Daoud, Suzanne On the space of analytic functions represented by the series $\sum a_n \exp -\langle \lambda_n, \Psi(x)\rangle$. (English and Arabic summaries) **99d:46033**
Dragilev, M. M. On isomorphic representation for the pairs of embedded spaces of analytic functions. **99e:46030**
Fernández López, Antonio[2] (*with* Mayoral, Fernando; Naranjo, Francisco; Paúl, Pedro J.) Weakly sequentially complete Fréchet spaces of integrable functions. (English summary) **99e:46031**
Gelashvili, Koba Convergence criterion for $C^\infty(\mathbf{R}^n)$ in the topology of compact convergence of all derivatives. (English and Georgian summaries)
Goncharov, A. P. (*with* Kocatepe, Mefharet) Isomorphic classification of the spaces of Whitney functions. **99a:46038**
— Perfect sets of finite class without the extension property. (English summary) **99b:46026**
Kaplitskiĭ, V. M. *see* **Kondakov, V. P., 99h:46033**
Kocatepe, Mefharet *see* **Goncharov, A. P., 99a:46038**
Kondakov, V. P. (*with* Kaplitskiĭ, V. M.) Bases in weighted spaces of entire functions. (English summary) **99h:46033**
Korobeĭnik, Yu. F. Surjective operators on connected sets. (English summary) **99f:46029**
Lions, Jacques-Louis Espaces de Beppo Levi et quelques applications. [Spaces of Beppo Levi and some applications] (*see* **99f:00035**)
Mayoral, Fernando *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Nacinovich, Mauro (*with* Shlapunov, A. A.; Tarkhanov, Nikolai N.) Duality in the spaces of solutions of elliptic systems. **99e:46032**
Naranjo, Francisco *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Narici, Lawrence (*with* Beckenstein, Edward) The separating map: a survey. (English summary) **99k:46032**
Paúl, Pedro J. *see* **Fernández López, Antonio[2]; et al., 99e:46031**
Peng, Zhi Gang Topological linear spaces and H^p spaces of functions given by Dirichlet series. (Chinese. English and Chinese summaries) **99h:46034**
Sanchis, Manuel A note on Ascoli's theorem. (English summary) **99m:46063**
Schmets, Jean (*with* Valdivia, Manuel) Analytic extension of non-quasi-analytic Whitney jets of Beurling type. (English summary) **99m:46064**
Schweitzer, Larry B. C^∞ functions on the Cantor set, and a smooth m-convex Fréchet subalgebra of O_2. (English summary) **99g:46020**
Shlapunov, A. A. *see* **Nacinovich, Mauro; et al., 99e:46032**
Srivastava, P. D. Simultaneous automorphism on a complete linear metric space. (English summary) **99d:46034**
Tan, Hai Ou *see* **Xiao, Jie[1], 99g:46021**
Tarkhanov, Nikolai N. *see* **Nacinovich, Mauro; et al., 99e:46032**
Taskinen, Jari *see* **Bierstedt, Klaus D.; et al., 99a:46037**
Tishchenko, E. S. *see* **Abanin, A. V.**
Valdivia, Manuel *see* **Schmets, Jean, 99m:46064**
Velichko, N. V. On the family of λ-topologies in a space of functions. (Russian. Russian summary) **99h:46035**
Xiao, Jie[1] (*with* Tan, Hai Ou) p-Bergman spaces, α-Bloch spaces, little α-Bloch spaces, and Cesàro means. (Chinese. Chinese summary) **99g:46021**

Items with secondary classifications in 46E10
Acharyya, S. K. (*with* Chattopadhyay, K. C.; Ray, G. G.) The maximal congruences on $C_+(X)$ and $C_+^*(X)$. (English summary)
Allan, Graham R. (*with* Kakiko, Grayson; O'Farrell, Anthony G.; Watson, R. O.) Finitely-generated algebras of smooth functions, in one dimension. (English summary) **99m:46127**
Bonet, José (*with* Galbis, A.; Meise, Reinhold) On the range of convolution operators on non-quasianalytic ultradifferentiable functions. (English summary) **99a:46071**
Chattopadhyay, K. C. *see* **Acharyya, S. K.; et al.**
Choban, Mitrofan M. General theorems on functional equivalence of topological spaces. (English summary) **99k:54007**
Choi, Ki Seong (*with* Yang, Gye Tak) Operators on generalized Bloch space. (English summary) **99g:47061**
Díaz Alcaide, Juan Carlos (*with* Domański, Paweł) Reflexive operators with domain in Köthe spaces. (English summary) **99j:46011**
Domański, Paweł (*with* Vogt, D.) A splitting theorem for the space of smooth functions. (English summary) **99b:46001**
— *see also* **Díaz Alcaide, Juan Carlos, 99j:46011**
Galbis, A. *see* **Bonet, José; et al., 99a:46071**
Gupta, Sunil *see* **Komal, B. S., 99g:47065**
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— *see also* **Benabdellah, H., 99b:46050**
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— (*with* Saab, Elias) The near Radon-Nikodým property in Lebesgue-Bochner function spaces. **99e:46050**
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— (*with* Mayoral, Fernando; Naranjo, Francisco; Paúl, Pedro J.) Weakly sequentially complete Fréchet spaces of integrable functions. (English summary) **99e:46031**
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— (*with* Dineen, Seán) Compact sets of holomorphic mappings. (English summary) **99m:46111**
Caldas Cueva, Miguel (*with* Pombo, Dinamérico P., Jr.) On a characterization of polynomially barrelled spaces. (English summary) **99f:46004**
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— *see also* **Grothaus, Martin; et al., 99h:46073**
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Aldroubi, Akram (*with* Feichtinger, Hans) Exact iterative reconstruction algorithm for multivariate irregularly sampled functions in spline-like spaces: the L^p-theory. (English summary) **99h:42054**
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Esterle, Jean (*with* Vol′berg, A. L.) Sous-espaces invariants par translations bilatérales de certains espaces de Hilbert de suites quasi-analytiquement pondérées. (English and French summaries) [Translation-invariant subspaces of some quasi-analytically weighted Hilbert spaces of sequences] **99k:47013**
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Fomin, V. I. On optimal embeddings of Hölder and weighted spaces of numerical sequences. (Russian)
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Gloor, Philip J. The behavior, on $\dot{B}^{0,1}_1$, of an oscillatory integral with polynomial phase function. (English summary) **99d:42023**
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Haußmann, Werner (*with* Kounchev, Ognyan I.) Variational property of the Peano kernel for harmonicity differences of order p. **99i:41031**
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Izuchi, Keiji (*with* Matsugu, Yasuo) A_φ-invariant subspaces on the torus. (English summary) **99f:47011**
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Klinkhammer, John J. On the Pompeiu problem in $\mathbf{R}^n$. **99a:46069**
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Mikusiński, Piotr On flexibility of Boehmians. (English summary) **99e:44004**

Nakagami, Keiko A hyperbolic differential equation in the space $\Gamma_0(D) \oplus M_0(D)$. (English summary) **99k:35107**

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Paramonov, P. V. *see* **Boivin, André, 99i:41019**

Pedersen, Paul S. Basis for power series solutions to systems of linear, constant coefficient partial differential equations. (English summary) **99k:35022**

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Rehren, Karl-Henning *see* **Frieler, K., 99f:81120**

Russo, Francesco *see* **Oberguggenberger, Michael, 99d:60071** *and* **99i:35185**

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Torrea Hernández, José Luis *see* **Menárguez, M. Trinidad, 99g:46050**

Tose, Nobuyuki *see* **Andronikof, Emmanuel, 99i:58139**

Uludağ, A. Muhammed On possible deterioration of smoothness under the operation of convolution. (English summary) **99m:60026**

Ushkov, V. Yu. *see* **Mel′nikova, I. V.; et al., 99d:47037**

Valmorin, Vincent *see* **Marti, Jean-André; et al., 99d:35025** *and* **99k:35012**

Varadarajan, V. S. *see* **Kolk, Johan A. C., 99d:22025**

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Yan, Li Xin (*with* Deng, Dong Gao) A characterization of Besov spaces over Lipschitz curves. (Chinese. Chinese summary) **99g:46048**

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Zavalishchin, S. T. (*with* Sesekin, A. N.) ★ Dynamic impulse systems. (English summary) **99h:34018**

Zhitarashu, N. V. (*with* Eidelman, Samuil D.) L_p-theory of generalized solutions of linear parabolic conjugation problems. (Russian. English, Russian and Moldavian summaries) **99b:35083**

Ziemian, Bogdan *see* **Pliś, Maria E., 99m:44002**

46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

Aguirre Téllez, Manuel Antonio (*with* Cerutti, Rubén Alejandro; Trione, Susana Elena) Tables of Fourier, Laplace and Hankel transforms of n-dimensional generalized functions. (English summary) **99b:46062**

Berndtsson, Bo An inequality for Fourier-Laplace transforms of entire functions, and the existence of exponential frames in Fock space. (English summary) **99d:46059**

Betancor, Jorge J. (*with* Marrero, Isabel) New spaces of type $\mathscr{H}_\mu$ and the Hankel transformation. (English summary) **99e:46054**

— (*with* Rodríguez-Mesa, Lourdes) On Hankel convolutors on Zemanian spaces. (English summary) **99d:46060**

— (*with* Rodríguez-Mesa, Lourdes) A Paley-Wiener theorem for the Hankel transform of Colombeau type generalized functions. (English summary) **99m:46102**

Cerutti, Rubén Alejandro *see* **Aguirre Téllez, Manuel Antonio; et al., 99b:46062**

Chung, Soon-Yeong Positive definite temperature functions and a correspondence to positive temperature functions. (English summary) **99e:46055**

Dejean, Yves Transformation de Fourier des distributions homogènes (d'après Lars Gårding). [Fourier transform of homogeneous distributions (after Lars Gårding)] (*see* **99f:00040**)

Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) Local Tauberian theorems in spaces of generalized functions associated with cones, and their applications. (Russian. Russian summary) **99a:46075**
García, Antonio G. (*with* Moro, Julio; Hernández-Medina, Miguel Ángel) On the distributional Fourier duality and its applications. (English summary) **99m:46103**
Ha Huy Bang The Paley-Wiener-Schwartz theorem for nonconvex domains. **99m:46104**
Hernández-Medina, Miguel Ángel *see* **García, Antonio G.; et al., 99m:46103**
Karunakaran, V. (*with* Venugopal, T.) The Weierstrass transform for a class of generalized functions. (English summary) **99h:46072**
Kierat, Władysław A remark about the infinitesimal operator of the Cauchy semigroup. (English summary) **99a:46076**
— (*with* Skoŕnik, Krystyna) Remarks on convolution products of distributions. (English summary) **99a:46077**
Malone, David An unusual construction of the Fourier transform.
Marrero, Isabel *see* **Betancor, Jorge J., 99e:46054**
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Rodríguez-Mesa, Lourdes *see* **Betancor, Jorge J., 99d:46060** *and* **99m:46102**
Schmeelk, John (*with* Takači, Arpad) Wavelet transforms in generalized Fock spaces. (English summary) **99a:46078**
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Soraggi, R. L. On injectivity of Fourier transform on Colombeau's algebra of generalized functions. (English summary) **99d:46061**
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Szmydt, Zofia (*with* Ziemian, Bogdan) Topological imbedding of Laplace distributions in Laplace hyperfunctions. **99g:46055**
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Trione, Susana Elena *see* **Aguirre Tellez, Manuel Antonio; et al., 99b:46062**
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Ziemian, Bogdan *see* **Szmydt, Zofia, 99g:46055**

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Ahn, Jae Moon L_1 analytic Fourier-Feynman transform on the Fresnel class of abstract Wiener space. (English summary) **99i:28020**
Bandewar, S. R. *see* **Malgonde, S. P., 99b:44001**
Banerji, P. K. (*with* Gehlot, Kuldeep Singh) Products of Stieltjes transform and fractional integrals on spaces of generalized functions. (English summary) **99m:44005**
Betancor, Jorge J. (*with* Rodríguez-Mesa, Lourdes) On Hankel convolutors on certain Hankel transformable function spaces. (English summary) **99m:44009**
— (*with* Rodríguez-Mesa, Lourdes) Lipschitz-Hankel spaces, partial Hankel integrals and Bochner-Riesz means. (English summary) **99i:46021**
— (*with* Rodríguez-Mesa, Lourdes) Lipschitz-Hankel spaces and partial Hankel integrals. (English summary) **99g:44006**
— (*with* Rodríguez-Mesa, Lourdes) On the Besov-Hankel spaces. **99i:46020**
Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) Fourier analysis, distributions and hyperfunctions. (English summary) **99d:46052**
Chung, Soon-Yeong Positive definiteness of temperature functions. (English summary) **99f:35068**
— *see also* **Chung, Jaeyoung; et al., 99d:46052**
Comech, Andrew Sobolev estimates for the Radon transform of Melrose and Taylor. (English summary) **99h:44004**
Cruz-Báez, D. I. (*with* Rodríguez Expósito, José) The $\mathcal{L}_\nu^{(p)}$-transformation on McBride's spaces of generalized functions. (English summary) **99k:44006**
Drozhzhinov, Yu. N. *see* **Zav′yalov, B. I.**
Fujita, Keiko *see* **Morimoto, Mitsuo, 99b:32006**
Gehlot, Kuldeep Singh *see* **Banerji, P. K., 99m:44005**
Glaeske, Hans-Jürgen On Zernicke polynomials. (English summary) **99i:33007**
González Rodríguez, Benito *see* **Hayek Calil, Nácere, 99k:44007**
Gupta, Neelmani *see* **Saxena, Ram Kishore, 99k:33043**
Ha Huy Bang Theorems of Paley-Wiener-Schwartz type. (Russian) **99g:35025**
Hayek Calil, Nácere (*with* González Rodríguez, Benito) A convolution theorem for the distributional index ${}_2F_1$-transform. (English summary) **99k:44007**
Kierat, Władysław (*with* Sztaba, Urszula) The generalized Fourier transforms of slowly increasing functions. **99b:44006**
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Koh, E. L. *see* **Li, Chen-Kuan, 99h:46070**
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Mahato, Anil Kumar An integral transform of generalized functions. II. (Russian summary) **99h:44008**
Malgonde, S. P. (*with* Bandewar, S. R.) The two-sided Laplace-Kontorovich-Lebedev transform of generalized functions. **99b:44001**
Méndez-Pérez, J. M. R. (*with* Miquel Morales, G.) On the convolution of the generalized finite Legendre transform. (English summary) **99e:44003**
Miquel Morales, G. *see* **Méndez-Pérez, J. M. R., 99e:44003**
More, S. V. *see* **Panchal, S. K., 99b:44004**
Morimoto, Mitsuo (*with* Fujita, Keiko) Conical Fourier-Borel transformations for harmonic functionals on the Lie ball. (English summary) **99b:32006**
Panchal, S. K. (*with* More, S. V.) Alternative proof for the inversion of Marchi-Zgrablich transform of distributions. (English summary) **99b:44004**
Pathak, Ram Shankar ★ Integral transforms of generalized functions and their applications. (English summary) **99f:44001**
— (*with* Upadhyay, Satyanshu K.) Convolution in $(W_{M,a}^p)'$-space. (English summary) **99a:46074**
Rodríguez Expósito, José *see* **Cruz-Báez, D. I., 99k:44006**
Rodríguez-Mesa, Lourdes *see* **Betancor, Jorge J., 99g:44006; 99i:46020; 99i:46021** *and* **99m:44009**
Saxena, Ram Kishore (*with* Gupta, Neelmani) On distributional generalized H-transformation. (English summary) **99k:33043**
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Upadhyay, Satyanshu K. *see* **Pathak, Ram Shankar, 99a:46074**
Zav′yalov, B. I. (*with* Drozhzhinov, Yu. N.) On a real Tauberian theorem. (Russian)

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Pilipović, Stevan S. (*with* Stanković, Bogoljub) The structure of a convergent family of Fourier hyperfunctions. (English summary) **99f:46059**
Stanković, Bogoljub S-bounded Fourier hyperfunctions. (English summary) **99j:46047**
— Convergence structures and S-asymptotic behaviour of Fourier hyperfunctions. (English summary) **99k:46068**
— *see also* **Pilipović, Stevan S., 99f:46059**
Umetsu, Noriyuki Singularities of hyperfunctions with regular parameters. (Japanese) (*see* **99e:35002**)

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Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) Fourier analysis, distributions and hyperfunctions. (English summary) **99d:46052**
Chung, Soon-Yeong (*with* Kim, Dohan) A quasianalytic singular spectrum with respect to the Denjoy-Carleman class. (English summary) **99e:58171**
— *see also* **Chung, Jaeyoung; et al., 99d:46052**
Cordaro, Paulo D. (*with* Trépreau, Jean-Marie) On the solvability of linear partial differential equations in spaces of hyperfunctions. **99d:35006**
Decreux, Eric Idéaux fermés d'une algèbre de Beurling régulière. (English and French summaries) [Closed ideals of a regular Beurling algebra] **99f:46075**
Eida, Atsuhiko (*with* Pilipović, Stevan S.) On the microlocal decomposition of some classes of hyperfunctions. (English summary) **99m:58178**
Kim, Dohan *see* **Chung, Jaeyoung; et al., 99d:46052** *and* **Chung, Soon-Yeong, 99e:58171**
Martineau, André Les hyperfonctions de M. Sato. [The hyperfunctions of M. Sato] (*see* **99f:00038**)
Nagamachi, S. *see* **Brüning, E., 99k:81169**
Oaku, Toshinori (*with* Yamazaki, Susumu) Higher-codimensional boundary value problems and F-mild microfunctions—local and microlocal uniqueness. (English summary) **99k:58169**
Pilipović, Stevan S. *see* **Eida, Atsuhiko, 99m:58178**
Szmydt, Zofia (*with* Ziemian, Bogdan) Topological imbedding of Laplace distributions in Laplace hyperfunctions. **99g:46055**
Trépreau, Jean-Marie *see* **Cordaro, Paulo D., 99d:35006**
Yamazaki, Susumu *see* **Oaku, Toshinori, 99k:58169**
Yoshino, Kunio Difference equation in the space of holomorphic functions of exponential type and Ramanujan summation. **99f:39012**
Ziemian, Bogdan *see* **Szmydt, Zofia, 99g:46055**

46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

Carmichael, Richard D. (*with* Pilipović, Stevan S.) The Cauchy and Poisson kernels as ultradifferentiable functions. (English summary) **99c:46039**
— (*with* Pilipović, Stevan S.) Boundary values in ultradistribution spaces. (English summary) **99c:46040**
Pilipović, Stevan S. Boundary values of holomorphic functions in the sense of ultradistributions and the microlocal analysis via Poisson's kernel. (English summary) **99k:46069**
— *see also* **Carmichael, Richard D., 99c:46039** *and* **99c:46040**

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Estrada, Ricardo Regularization of distributions. (English summary) **99h:46068**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Chang, Kun Soo (*with* Kim, Young Sik; Yoo, Il) An L_p analytic Fourier-Feynman transform on abstract Wiener space. (English summary) **99m:46105**
Cochran, W. George (*with* Kuo, Hui-Hsiung; Sengupta, Ambar N.) A new class of white noise generalized functions. (English summary) **99d:46062**
Grothaus, Martin (*with* Kondrat′ev, Yu. G.; Streit, Ludwig) Complex Gaussian analysis and the Bargmann-Segal space. (English summary) **99h:46073**
Janson, Svante On complex hypercontractivity. (English summary) **99b:46063**
Kim, Young Sik *see* **Chang, Kun Soo; et al., 99m:46105**
Kondrat′ev, Yu. G. (*with* Streit, Ludwig; Westerkamp, Werner; Yan, Jia An) Generalized functions in infinite-dimensional analysis. (English summary) **99m:46106**
— *see also* **Grothaus, Martin; et al., 99h:46073**
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Aguilar-Ortiz, Jaime (*with* Gorostiza, Luis G.) A nuclear space of distributions on a space of incomplete continuous functions. **99j:60074**

Basin, M. V. Infinite-dimensional differential equations in distributions with discontinuous functions in the right-hand side. (Russian. Russian summary) **99a:34160**
Chiccoli, C. *see* **Lorenzutta, S.; et al., 99f:33002**
Chung, Dong Myung (*with* Ji, Un Cig) Transformation groups on white noise functionals and their applications. (English summary) **99h:60132**
— (*with* Ji, Un Cig; Obata, Nobuaki) Transformations on white noise functions associated with second order differential operators of diagonal type. (English summary) **99c:60134**
Dattoli, G. *see* **Lorenzutta, S.; et al., 99f:33002**
Dubin, Daniel A. *see* **Hennings, Mark A.; et al., 99i:81118**
Gorostiza, Luis G. *see* **Aguilar-Ortiz, Jaime, 99j:60074**
Gough, John Edward A new approach to non-commutative white noise analysis. (English and French summaries) **99m:81116**
Hennings, Mark A. (*with* Dubin, Daniel A.; Smith, Thomas B.) Dequantization techniques for Weyl quantization. (English summary) **99i:81118**
Hida, Takeyuki White noise approach to fluctuations. (English summary) **99k:60168**
Ji, Un Cig *see* **Chung, Dong Myung; et al., 99c:60134** *and* **99h:60132**
Kubo, Izumi Non-isotropic Ornstein-Uhlenbeck process and white noise analysis. **99h:60113**
Lee, Yuh-Jia A generalization of the Riesz representation theorem to infinite dimensions. (English summary) **99b:46056**
— Generalized white noise functionals on classical Wiener space. (English summary) **99m:60084**
Lorenzutta, S. (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Chiccoli, C.) Infinite-variable Bessel functions of the Anger type and the Fourier expansions. (English summary) **99f:33002**
Luo, Shun-Long (*with* Yan, Jia An) Generalized Fourier-Mehler transforms on white noise functional spaces. (English summary) **99m:60101**
Maino, G. *see* **Lorenzutta, S.; et al., 99f:33002**
Martini, Claude Polynômes harmoniques sur l'espace du bruit blanc. (English and French summaries) [Harmonic analysis on white noise space] **99m:60102**
Maslov, V. P. (*with* Shvedov, O. Yu.) Spectral problems with an operator-valued symbol in quantum field theory. (Russian) **99f:81049**
Obata, Nobuaki Integral kernel operators on Fock space—generalizations and applications to quantum dynamics. (English summary) **99c:81112**
— *see also* **Chung, Dong Myung; et al., 99c:60134**
Ouerdiane, H. Algèbres nucléaires de fonctions entières et équations aux derivées partielles stochastiques. [Nuclear algebras of entire functions and stochastic partial differential equations] **99k:60165**
Saitô, Kimiaki A C_0-group generated by the Lévy Laplacian. II. (English summary) **99k:46074**
— A (C_0)-group generated by the Lévy Laplacian. (English summary) **99g:60109**
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Yan, Jia An *see* **Luo, Shun-Long, 99m:60101**

46F99 None of the above, but in this section

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Dragović, Branko G. On generalized functions in adelic quantum mechanics. (English summary) **99d:11124**
Estrada, Ricardo (*with* Gracia-Bondía, J. M.; Várilly, J. C.) On summability of distributions and spectral geometry. (English summary) **99a:58153**
Gracia-Bondía, J. M. *see* **Estrada, Ricardo; et al., 99a:58153**
Harinck, Pascale Base de la série la plus continue de fonctions généralisées sphériques sur G_C/G_R. (English and French summaries) [Basis of the most continuous series of spherical generalized functions on G_C/G_R] **99f:22016**
— Fonctions orbitales sur G_C/G_R. Formule d'inversion des intégrales orbitales et formule de Plancherel. (English and French summaries) [Orbital functions on G_C/G_R. Inversion formula for orbital integrals and Plancherel formula] **99f:22017**
Honegger, Reinhard Enlarged test-function spaces for the global free folia dynamics on the CCR-algebra. (English summary) **99h:81124**
Mijatović, Milorad (*with* Pilipović, Stevan S.) α-times integrated semigroups ($\alpha \in \mathbf{R}^-$). (English summary) **99k:47096**
Pilipović, Stevan S. *see* **Mijatović, Milorad, 99k:47096**
Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces. II. (Russian. Russian summary) **99f:43005**
Solov'ev, M. A. Use of nontempered distributions to handle infrared singularities. (English summary) (*see* **99h:81006**)
Thorleifsson, H. The Poisson transform for split reductive symmetric spaces. **99f:43004**
Várilly, J. C. *see* **Estrada, Ricardo; et al., 99a:58153**
Yang, Zifeng Locally analytic functions over completions of $\mathbf{F}_r[U]$. (English summary) **99h:11062**
Zhao, Rong Xia Regularized smooth distribution groups. (English and Chinese summaries) **99b:47056**

46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) {For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx.}

Kachanovskiĭ, N. A. (*with* Us, G. F.) Biorthogonal Appell systems in analysis on dually nuclear spaces. (Russian) **99c:46041**
Us, G. F. *see* **Kachanovskiĭ, N. A., 99c:46041**

46G05 Derivatives [see also 58C20, 58C25]

Azagra, D. (*with* Gómez Gil, Javier; Jaramillo, Jesús Angel) Rolle's theorem and negligibility of points in infinite-dimensional Banach spaces. **99b:46064**
Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) Additive inequalities for intermediate derivatives of differentiable mappings of Banach spaces. (Russian. Russian summary) **99j:46048**
Bantaş, Gh. Sur le théorème des accroissements finis. [On the finite-increment theorem] **99b:46065**
Bayoumi, Aboubakr Fundamental theorem of calculus for locally bounded spaces. (English summary) **99i:46030**
Bongiorno, Donatella Stepanoff's theorem in separable Banach spaces. (English summary) **99k:46070**
Castro, Alfonso (*with* Neuberger, J. W.) An inverse function theorem. (English summary) **99k:46071**
Cheng, Li Xin (*with* Shi, Shu Zhong) Lipschitz functions on Banach spaces which are actually on Asplund spaces. **99g:46056**
— (*with* Shi, Shu Zhong) Lipschitz functions on Banach spaces which are actually on Asplund spaces. (Chinese)
Fry, Robb Smooth partitions of unity on Banach spaces. (English summary) **99a:46080**
Gómez Gil, Javier *see* **Azagra, D.; et al., 99b:46064**
Hájek, Petr² Smooth functions on c_0. (English summary) **99d:46063**
— Smooth functions on $C(K)$. (English summary) **99k:46072**
Holický, P. (*with* Šmídek, M.; Zajíček, Luděk) Convex functions with non-Borel set of Gâteaux differentiability points. (English summary) **99k:46073**
Jaramillo, Jesús Angel *see* **Azagra, D.; et al., 99b:46064**
Kofanov, V. A. *see* **Babenko, Vladislav F.; et al., 99j:46048**
Lávička, Roman The Lévy-Laplacian and differential operators of 2nd order in Hilbert spaces. (English summary) **99d:46064**
Matoušková, Eva (*with* Zajíček, Luděk) Second order differentiability and Lipschitz smooth points of convex functionals. **99m:46107**
Neuberger, J. W. *see* **Castro, Alfonso, 99k:46071**
Penot, Jean-Paul What is a subgradient in a space which is not an inner product space? **99f:46060**
Pichugov, S. A. *see* **Babenko, Vladislav F.; et al., 99j:46048**
Poppenberg, Markus On a generalized implicit function theorem for Fréchet spaces. (English summary) **99j:46049**
Rangachari, M. S. Calculus in Banach spaces. **99h:46075**
Saitô, Kimiaki A C_0-group generated by the Lévy Laplacian. II. (English summary) **99k:46074**
Shi, Shu Zhong (*with* Wang, Bing Wu) Geometric conditions for differentiability of a regular locally Lipschitz function. (Chinese. English and Chinese summaries) **99m:46108**
— *see also* **Cheng, Li Xin, 99g:46056**
Shkarin, S. A. Extending smooth functions from linear subspaces of locally convex spaces. (English summary) **99h:46076**
Šmídek, M. *see* **Holický, P.; et al., 99k:46073**
Turinici, Mihai Differential mean value properties for quasi-continuous functions. I. **99m:46109a**
— Differential mean value properties for quasi-continuous functions. II. **99m:46109b**
Tuynman, Gijs M. Functions of class C^k without derivatives. (English summary) **99d:46065**
Wang, Bing Wu *see* **Shi, Shu Zhong, 99m:46108**
Wang, Jian Necessary and sufficient conditions for some smoothness properties and uniform Gateaux differentiability in Banach spaces. (Chinese. English and Chinese summaries)
Zabreĭko, Petr Petrovich The mean value theorem for differentiable mappings in Banach spaces. (English summary) **99c:46042**
Zajíček, Luděk Supergeneric results and Gateâux differentiability of convex and Lipschitz functions on small sets. **99d:46066**
— On differentiability properties of Lipschitz functions on a Banach space with a Lipschitz uniformly Gâteaux differentiable bump function. (English summary) **99b:46066**
— *see also* **Holický, P.; et al., 99k:46073** *and* **Matoušková, Eva, 99m:46107**

Items with secondary classifications in 46G05

András, Domokos Equivalence between implicit function theorems. (English summary) **99g:47124**
Bartlett, Michael O. (*with* Giles, John R.; Vanderwerff, Jon D.) Structural implications of norms with Hölder right-hand derivatives. (English summary) **99b:46011**
Bayoumi, Aboubakr Mean value theorem for complex locally bounded spaces. (English summary) **99c:46035**
Borwein, Jonathan M. (*with* Vanderwerff, Jon D.) Convex functions on Banach spaces not containing l_1. (English summary) **99a:46020**
Cepedello Boiso, Manuel On regularization in superreflexive Banach spaces by infimal convolution formulas. (English summary) **99b:46117**
Cheng, Li Xin (*with* Shi, Shu Zhong; Wang, Bing Wu; Lee, E. Stanley) Generic Fréchet differentiability of convex functions dominated by a lower semicontinuous convex function. (English summary) **99m:49021**
Combari, C. (*with* Elhilali Alaoui, A.; Levy, Adam B.; Poliquin, R. A.; Thibault, L.) Convex composite functions in Banach spaces and the primal lower-nice property. (English summary) **99b:49016**
Elhilali Alaoui, A. *see* **Combari, C.; et al., 99b:49016**
Galanis, George N. On a type of linear differential equations in Fréchet spaces. (English summary) **99c:34126**
Giles, John R. *see* **Bartlett, Michael O.; et al., 99b:46011**
Hansen, Frank Operator convex functions of several variables. (English summary) **99b:47022a**
— A correction to: "Operator convex functions of several variables". **99b:47022b**
Herzog, Gerd On Lipschitz conditions for ordinary differential equations in Fréchet spaces. (English summary) **99c:34134**
Hida, Takeyuki White noise approach to fluctuations. (English summary) **99k:60168**

Ivanov, Milen (*with* Zlateva, Nadia) Abstract subdifferential calculus and semi-convex functions. (English summary) **99f:49020**
Jourani, Abderrahim (*with* Thibault, L.) Qualification conditions for calculus rules of coderivatives of multivalued mappings. (English summary) **99f:49021**
Klimov, V. S. On the topological characteristics of Lipschitz functionals. (Russian)
Kruger, A. Ya. Strict ε-semidifferentials and the differentiation of multivalued mappings. (Russian. English and Russian summaries) **99c:49017**
— Strict ε-semidifferentials and extremality conditions. (Russian. English and Russian summaries) **99c:49018**
Kunakovskaya, O. V. On smooth partitions of unity on Banach manifolds. (Russian) **99b:58017**
Kurc, W. Monotonicity, order smoothness and duality for convex functionals. (English summary) **99b:46005**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Subdifferentials: theory and applications. (English summary) **99c:46001**
Kutateladze, S. S. *see* **Kusraev, A. G., 99c:46001**
Lee, E. Stanley *see* **Cheng, Li Xin; et al., 99m:49021**
Lee, Seok Jong (*with* Nel, Louis Daniel[1]) Foundational isomorphisms in continuous differentiation theory. (English summary) **99d:58027**
Levy, Adam B. *see* **Combari, C.; et al., 99b:49016**
de la Llave, R. (*with* Obaya Garcia, Rafael) Regularity of the composition operator in spaces of Hölder functions. (English summary) **99m:47085**
Matoušková, Eva An almost nowhere Fréchet smooth norm on superreflexive spaces. (English summary) **99m:46037**
Moreno, J. P. On the weak* Mazur intersection property and Fréchet differentiable norms on dense open sets. (English summary) **99h:46017**
Nakanishi, Shizu Integrals for nuclear countably Hilbert space valued functions and ordinary differential equations. I. (English summary) **99m:34140**
Nel, Louis Daniel[1] *see* **Lee, Seok Jong, 99d:58027**
Obaya García, Rafael *see* **de la Llave, R., 99m:47085**
Penot, Jean-Paul Subdifferential calculus and subdifferential compactness. (English summary) **99d:49034**
Poliquin, R. A. *see* **Combari, C.; et al., 99b:49016**
Saitô, Kimiaki A (C_0)-group generated by the Lévy Laplacian. (English summary) **99g:60109**
Shamarov, N. N. Some formulas for the calculus of differential forms of finite codegree on a locally convex space. (Russian. Russian summary) **99b:58011**
— A probabilistic solution of the Neumann problem for the Poisson equation in a domain of a Hilbert space. (Russian)
Shi, Shu Zhong *see* **Cheng, Li Xin; et al., 99m:49021**
Thibault, L. *see* **Combari, C.; et al., 99b:49016** *and* **Jourani, Abderrahim, 99f:49021**
Vanderwerff, Jon D. *see* **Borwein, Jonathan M., 99a:46020** *and* **Bartlett, Michael O.; et al., 99b:46011**
Wang, Bing Wu *see* **Cheng, Li Xin; et al., 99m:49021**
Zhu, Qiji J. Clarke-Ledyaev mean value inequalities in smooth Banach spaces. **99f:49022**
Zlateva, Nadia *see* **Ivanov, Milen, 99f:49020**

46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Fernández López, Antonio[2] (*with* Naranjo, Francisco) Rybakov's theorem for vector measures in Fréchet spaces. (English summary) **99f:46061**
Freniche, Francisco (*with* García-Vázquez, Juan Carlos; Rodríguez-Piazza, Luis) The failure of Fatou's theorem on Poisson integrals of Pettis integrable functions. (English summary) **99k:46075**
García-Vázquez, Juan Carlos *see* **Freniche, Francisco; et al., 99k:46075**
Kadets, V. M. *see* **Zheltukhin, K. V., 99f:46062**
Naranjo, Francisco *see* **Fernández López, Antonio[2], 99f:46061**
Papageorgiou, Nikolaos S. Transition vector measures and multimeasures and parametric set-valued integrals. (English summary) **99a:46081**
Plebanek, Grzegorz On Pettis integral and Radon measures. (English summary) **99c:46043**
Rodríguez-Piazza, Luis *see* **Freniche, Francisco; et al., 99k:46075**
Sun, Li Min[2] Some properties of vector measures with values in a locally convex space. (Chinese. English and Chinese summaries)
Vraciu, George Hellinger integrals for vector functions. (English summary) **99c:46044**
Yao, Yun Fei A generalized Jensen inequality for vector-valued Bochner integrals in Banach spaces. (Chinese. English and Chinese summaries) **99c:46045**
Zheltukhin, K. V. (*with* Kadets, V. M.) A vector-valued measure as a basis of a Banach space. (Russian. English, Russian and Ukrainian summaries) **99f:46062**

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Asmar, Nakhlé H. (*with* Montgomery-Smith, Stephen J.) Analytic measures and Bochner measurability. **99d:43014**
Bianchini, Stefano Extremal faces of the range of a vector measure and a theorem of Lyapunov. (English summary) **99m:28025**
Blasco, Oscar Radon-Nikodym versus Fatou. (Spanish. Spanish summary) **99k:46023**
Boccuto, Antonio Dieudonné-type theorems for means with values in Riesz spaces. (English summary) **99m:28027**
Brooks, J. K. (*with* Candeloro, Domenico; Martellotti, A.) On finitely additive measures in nuclear spaces. (Italian summary) **99e:28017**
Candeloro, Domenico *see* **Brooks, J. K.; et al., 99e:28017**
Canoy, Sergio R. (*with* Navarro, Milagros P.) Nonlinear integral representation of orthogonally additive operators. (English summary) **99m:26013**
Cascales, B. (*with* Manjabacas, G.; Vera, G.) A Krein-Šmulian type result in Banach spaces. **99c:46009**
Chakraborty, N. D. *see* **Jaker Ali, Sk., 99e:28019**
De Lucia, Paolo Convergence theorems in orthomodular posets. **99h:28025**
Fernández y Fernández-Arroyo, Fidel José (*with* Jiménez Guerra, Pedro; Ulecia García, María Teresa) A Radon-Nikodým theorem for vector polymeasures. (English summary) **99m:28026**
Gámez, José L. (*with* Mendoza, José) On Denjoy-Dunford and Denjoy-Pettis integrals. (English summary) **99k:28013**
Halilović, Armin Semi-variation and multilinear Stieltjes integrals. (English summary) **99g:28022**
Jaker Ali, Sk. (*with* Chakraborty, N. D.) Pettis integration in locally convex spaces. (Russian summary) **99e:28019**
Jiménez Guerra, Pedro *see* **Fernández y Fernández-Arroyo, Fidel José; et al., 99m:28026**
Katz, Nets Hawk Matrix valued paraproducts. **99f:42046**
Kawabe, Jun Weak convergence of tensor products of vector measures. (Japanese) (*see* **99i:00029**)
Lewis, Paul W. (*with* Ochoa, James P.) The range of a representing measure. **99e:46049**
Manjabacas, G. *see* **Cascales, B.; et al., 99c:46009**
Marchena, Begoña (*with* Piñeiro, Cándido) A note on sequences lying in the range of a vector measure valued in the bidual. (English summary) **99a:46023**
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Mendoza, José *see* **Gámez, José L., 99k:28013**
van Mill, Jan (*with* Ran, A. C. M.) On a generalization of Lyapounov's theorem. (English summary) **99k:28014**
Montgomery-Smith, Stephen J. *see* **Asmar, Nakhlé H., 99d:43014**
Nakanishi, Shizu Riemann type integrals for functions with values in nuclear spaces and their properties. (English summary) **99g:28023**
— *see also* **Sakurada, Kuninori, 99i:28018**
Navarro, Milagros P. *see* **Canoy, Sergio R., 99m:26013**
Ochoa, James P. *see* **Lewis, Paul W., 99e:46049**
Panchapagesan, T. V. Applications of a theorem of Grothendieck to vector measures. (English summary) **99h:28022**
— Characterizations of weakly compact operators on $C_0(T)$. (English summary) **99b:47046**
Piñeiro, Cándido *see* **Marchena, Begoña, 99a:46023**
Ran, A. C. M. *see* **van Mill, Jan, 99k:28014**
Randrianantoanina, Narcisse (*with* Saab, Elias) The near Radon-Nikodým property in Lebesgue-Bochner function spaces. **99e:46050**
Ricker, Werner J. Rybakov's theorem in Fréchet spaces and completeness of L^1-spaces. (English summary) **99h:28023**
Saab, Elias *see* **Randrianantoanina, Narcisse, 99e:46050**
Sakurada, Kuninori (*with* Nakanishi, Shizu) Equivalence of the McShane and Bochner integrals for functions with values in Hilbertian (UCs-N) spaces endowed with nuclearity. (English summary) **99i:28018**
Schlüchtermann, Georg Hereditary properties for duals of Bochner L_p-function-spaces. (English summary) **99j:46042**
Swartz, Charles Beppo Levi's theorem for the vector-valued McShane integral and applications. (English summary) **99b:46054**
Thomas, E. G. F. Vector-valued integration with applications to the operator-valued H^∞ space. (English summary) **99d:28016**
Ulecia García, María Teresa *see* **Fernández y Fernández-Arroyo, Fidel José; et al., 99m:28026**
Vera, G. *see* **Cascales, B.; et al., 99c:46009**
Vladimirskaya, O. Some new generalizations of the Lyapunov convexity theorem. (English, Russian and Ukrainian summaries) **99e:46022**
Wu, Cong Xin (*with* Ye, Guoju) The McShane integral of Banach-valued functions defined on $\mathbf{R}^n$. I. (English and Chinese summaries) **99h:28024**
Xue, Xiao Ping[1] (*with* Zhang, Bo[1]) Integrals of set-valued mappings with values in locally convex spaces. (Chinese. English and Chinese summaries)
Ye, Guoju *see* **Wu, Cong Xin, 99h:28024**
Zhang, Bo[1] *see* **Xue, Xiao Ping[1]**
Zhang, Xi Tang A criterion for Pettis integrability. (Chinese. English and Chinese summaries) **99j:28010**
Zimmer, G. Beate An extension of the Bochner integral generalizing the Loeb-Osswald integral. **99a:28020**

46G12 Measures and integration on abstract linear spaces [see also 28C20]

Gallamov, M. M. Extension of mappings of a Banach space onto sets of positive Wiener measure. (Russian. English and Russian summaries) **99f:46063**
Kawasaki, Toshiharu Order Lebesgue integration in vector lattices. (English summary) **99g:46057**
Kirillov, A. I. Generalized differentiable product measures. (Russian. Russian summary) **99f:46064**
Norin, N. V. (*with* Smolyanov, Oleg G.) Logarithmic derivatives of measures, and Gibbs distributions. (Russian) **99d:46067**
Park, Chull (*with* Skoug, David) Integration by parts formulas involving analytic Feynman integrals. (English summary) **99i:46031**
Pugachëv, O. V. The Ostrogradskiĭ-Gauss formula in an infinite-dimensional space. (Russian. Russian summary) **99g:46058**
Skoug, David *see* **Park, Chull, 99i:46031**
Smolyanov, Oleg G. *see* **Norin, N. V., 99d:46067**

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Accardi, Luigi (*with* Lu, Yun Gang; Volovich, I. V.) Non-linear extensions of classical and quantum stochastic calculus and essentially infinite-dimensional analysis. **99f:81105**
Ahn, Jae Moon L_1 analytic Fourier-Feynman transform on the Fresnel class of abstract Wiener space. (English summary) **99i:28020**
Bogachev, Vladimir I. Differentiable measures and the Malliavin calculus. **99h:60111**
— (*with* Mayer-Wolf, Eduardo) Flows generated by vector fields of Sobolev type, and the corresponding transformations of probability measures. (Russian) **99f:60009**
— On the small ball problem for equivalent Gaussian measures. (Russian. Russian summary) **99j:60006**
Brooks, J. K. (*with* Neal, David K.) Generalized stochastic integration on nuclear spaces. **99h:60107**

Cannarsa, Piermarco (*with* Da Prato, Giuseppe) Potential theory in Hilbert spaces. **99a:35267**
Chang, Kun Soo (*with* Kim, Young Sik; Yoo, Il) An L_p analytic Fourier-Feynman transform on abstract Wiener space. (English summary) **99m:46105**
Chung, Dong Myung (*with* Ji, Un Cig) Transforms on white noise functionals with their applications to Cauchy problems. (English summary) **99b:60098**
— (*with* Ji, Un Cig) Transformation groups on white noise functionals and their applications. (English summary) **99h:60132**
Cochran, W. George (*with* Kuo, Hui-Hsiung; Sengupta, Ambar N.) A new class of white noise generalized functions. (English summary) **99d:46062**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco, 99a:35267**
Egorov, A. D. L_2-isomorphic Gaussian models for a class of functional integrals with respect to non-Gaussian quasimeasures. (Russian. English and Russian summaries) **99d:28021**
Elton, J. (*with* Hill, Theodore P.) On the basic representation theorem for convex domination of measures. (English summary) **99k:28015**
Grothaus, Martin (*with* Khandekar, Dinkar C.; da Silva, José L.; Streit, Ludwig) The Feynman integral for time-dependent anharmonic oscillators. (English summary) **99c:46083**
Hill, Theodore P. *see* **Elton, J., 99k:28015**
Hino, Masanori Existence of invariant measures for diffusion processes on a Wiener space. **99j:60118**
Janson, Svante On complex hypercontractivity. (English summary) **99b:46063**
Ji, Un Cig *see* **Chung, Dong Myung, 99b:60098** *and* **99h:60132**
Kang, Soon-Ja Feynman integrals in white noise analysis. (English summary) **99i:60133**
Khandekar, Dinkar C. *see* **Grothaus, Martin; et al., 99c:46083**
Kim, Bong Jin (*with* Ryu, Kun Sik) An operator valued function space integral of functionals involving double integrals. (English summary) **99g:28028**
Kim, Byung Soo[1] *see* **Yoo, Il, 99k:28017**
Kim, Young Sik *see* **Chang, Kun Soo; et al., 99m:46105**
Krugova, E. P. On shifts of convex measures. (Russian. Russian summary) **99m:28032**
Kubo, Izumi Non-isotropic Ornstein-Uhlenbeck process and white noise analysis. **99h:60113**
Kuo, Hui-Hsiung (*with* Xiong, Jie) Stochastic differential equations in white noise space. (English summary) **99m:60090**
— *see also* **Cochran, W. George; et al., 99d:46062**
Lee, Yuh-Jia A generalization of the Riesz representation theorem to infinite dimensions. (English summary) **99b:46056**
Lu, Yun Gang *see* **Accardi, Luigi; et al., 99f:81105**
Mayer-Wolf, Eduardo *see* **Bogachev, Vladimir I., 99f:60009**
Mizumachi, Hitoshi (*with* Satô, Hiroshi[1]) Absolute continuity of two-valued stochastic parallel translations of a Gaussian measure. (Japanese) (*see* **99i:00029**)
Nazarov, Fedor The Bang solution of the coefficient problem. (Russian) **99e:42049**
Neal, David K. *see* **Brooks, J. K., 99h:60107**
Nualart, David Analysis on Wiener space and anticipating stochastic calculus. **99k:60144**
Privault, Nicolas Absolute continuity in infinite dimensions and anticipating stochastic calculus. (English summary) **99h:28028**
Pugachëv, O. V. Surface measures in infinite-dimensional spaces. (Russian. Russian summary) **99g:28029**
Riss, E. On the scooping property of measures by means of disjoint balls. **99g:28030**
Ryu, Kun Sik *see* **Kim, Bong Jin, 99g:28028**
Ryznar, Michał (*with* Żak, Tomasz) Uniform upper bound for a stable measure of a small ball. (English summary) **99g:60034**
Satô, Hiroshi[1] *see* **Mizumachi, Hitoshi, (99i:00029)**
Sato, Ryotaro Vector valued differentiation theorems for multiparameter additive processes in L_p spaces. (English summary) **99m:47005**
Savel'ev, L. Ya. Spaces with measures. (Russian) **99d:28023**
Sengupta, Ambar N. *see* **Cochran, W. George; et al., 99d:46062**
Shamarov, N. N. Some formulas for the calculus of differential forms of finite codegree on a locally convex space. (Russian. Russian summary) **99b:58011**
Shimomura, Hiroaki 1-cocycles on infinite-dimensional spaces. **99k:58013**
da Silva, José L. *see* **Grothaus, Martin; et al., 99c:46083**
Streit, Ludwig *see* **Grothaus, Martin; et al., 99c:46083**
Sugita, Hiroshi (*with* Taniguchi, Setsuo) Oscillatory integrals with quadratic phase function on a real abstract Wiener space. (English summary) **99e:60126**
Taniguchi, Setsuo *see* **Sugita, Hiroshi, 99e:60126**
Üstünel, Ali Suleyman (*with* Zakai, Moshe) On the uniform integrability of the Radon-Nikodým densities for Wiener measure. (English summary) **99j:60055**
Volovich, I. V. *see* **Accardi, Luigi; et al., 99f:81105**
Xiong, Jie *see* **Kuo, Hui-Hsiung, 99m:60090**
Yoo, Il (*with* Kim, Byung Soo[1]) Analytic Feynman integrable functions over paths in abstract Wiener space. (English summary) **99k:28017**
— *see also* **Chang, Kun Soo; et al., 99m:46105**
Żak, Tomasz *see* **Ryznar, Michał, 99g:60034**
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46G20 Infinite-dimensional holomorphy [see also 32–XX, 46E50, 58B12, 58C10]

Ansemil, José M. (*with* Blasco, Fernando; Ponte, Socorro) Quasinormability and topologies on spaces of polynomials. (English summary) **99d:46068**
Benítez, Carlos (*with* Sarantopoulos, Yannis; Tonge, Andrew) Lower bounds for norms of products of polynomials. (English summary) **99h:46077**
Blasco, Fernando *see* **Ansemil, José M.; et al., 99d:46068**
Bombal, F. (*with* Villanueva Díez, Ignacio) Multilinear operators on spaces of continuous functions. **99m:46110**
Bonet, José (*with* Domański, Paweł) Real analytic curves in Fréchet spaces and their duals. (English summary) **99i:46032**
Boyd, Christopher (*with* Ryan, Raymond A.) Bounded weak continuity of homogeneous polynomials at the origin. (English summary) **99k:46076**
— (*with* Dineen, Seán) Compact sets of holomorphic mappings. (English summary) **99m:46111**
Bui Dac Tac *see* **Nguyen Van Hao, 99j:46051**
Carando, Daniel (*with* Zalduendo, Ignacio) A Hahn-Banach theorem for integral polynomials. (English summary) **99b:46067**
Choi, Yun Sung (*with* Kim, Sung Guen) Extreme polynomials on c_0. (English summary) **99k:46077a**
— (*with* Kim, Sung Guen; Ki, Haseo) Extreme polynomials and multilinear forms on l_1. (English summary) **99k:46077b**
Díaz Alcaide, Juan Carlos (*with* Dineen, Seán) Polynomials on stable spaces. **99a:46082**
Dineen, Seán *see* **Díaz Alcaide, Juan Carlos, 99a:46082** *and* **Boyd, Christopher, 99m:46111**
Dinh Huy Hoang Finite proper holomorphic surjections and linear topological invariants $(\overline{\Omega})$ and $(\widetilde{\Omega})$. (English summary) **99j:46050**
Domański, Paweł *see* **Bonet, José, 99i:46032**
Ferrera Cuesta, Juan Mosco convergence of sequences of homogeneous polynomials. (English summary) **99c:46046**
— Convergence of polynomial level sets. (English summary) **99k:46078**
González, Manuel (*with* Gutiérrez del Alamo, Joaquín M.) Gantmacher type theorems for holomorphic mappings. (English summary) **99b:46068**
— (*with* Gutiérrez del Alamo, Joaquín M.) Injective factorization of holomorphic mappings. (English summary) **99i:46033**
Gonzalo, Raquel (*with* Jaramillo, Jesús Angel) Compact polynomials between Banach spaces. (English summary) **99m:46112**
Gutiérrez del Alamo, Joaquín M. *see* **González, Manuel, 99b:46068** *and* **99i:46033**
Hájek, Petr[2] Polynomial algebras on classical Banach spaces. (English summary) **99k:46079**
Honda, Tatsuhiro The $\overline{\partial}$-problem on an infinite-dimensional domain. (English summary) **99k:46080**
— (*with* Miyagi, Mitsuhiro; Nishihara, Masaru; Yoshida, Mamoru) On the extension of polynomials of weak type. (English summary) **99a:46083**
Jaramillo, Jesús Angel *see* **Gonzalo, Raquel, 99m:46112**
Ki, Haseo *see* **Choi, Yun Sung; et al., 99k:46077b**
Kim, Sung Guen An inequality concerning polynomial norms and their coefficients. (English summary) **99c:46047**
— *see also* **Choi, Yun Sung, 99k:46077a** *and* **99k:46077b**
Lempert, László The Cauchy-Riemann equations in infinite dimensions. (English summary) **99k:46081**
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Clancy, Robert S. (*with* McCullough, Scott) Projective modules and Hilbert spaces with a Nevanlinna-Pick kernel. (English summary) **99a:47014**
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46H30 Functional calculus in topological algebras [see also 47A60]

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Jefferies, Brian (*with* McIntosh, Alan G. R.) The Weyl calculus and Clifford analysis. (English summary) **99e:47022**
Koliha, J. J. (*with* Mbekhta, Mostafa; Müller, Vladimír; Poon, Pak Wai) Corrigendum and addendum: "On the axiomatic theory of spectrum. II" [Studia Math. **119** (1996), no. 2, 129–147; MR 97c:47005] by Mbekhta and Müller. (English summary) **99d:47003**
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46H40 Automatic continuity

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— The problem of automatic continuity of epimorphisms on Banach spaces. (Chinese. English and Chinese summaries) **99h:46093**

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46H70 Nonassociative topological algebras [see also 46K70, 46L70]

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— (*with* Merrachi, Najia) Algèbres de Jordan Banach vérifiant $\|x\|\,\|x^{-1}\| = 1$. [Jordan-Banach algebras satisfying $\|x\|\,\|x^{-1}\| = 1$] **99h:46094**
Berdikulov, M. A. Order unit space of type I_n with Banach ball property. **99j:46056**
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El Yacoubi, N. (*with* Kemmoun, H.) J-diviseurs topologiques de zéro d'une algèbre de Jordan localement multiplicativement convexe. (English summary) [Topological J-divisors of zero of a locally multiplicatively convex Jordan algebra] **99b:46072**
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Chu, Cho-Ho (*with* Mellon, Pauline) Jordan structures in Banach spaces and symmetric manifolds. (English summary) **99h:58009**
Dieckmann, Gregor Korovkin theory in liminal JB-algebras. (English summary) **99b:46106**
Drăghia, Dumitru D. Continuity of Jordan homomorphisms and derivations with range in semiprime Banach algebras. (Romanian. English and Romanian summaries)
El Amin, Kaidi (*with* Ramírez, Maria Isabel; Rodríguez-Palacios, Ángel) Absolute-valued algebraic algebras are finite-dimensional. (English summary) **99c:17004**
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46H99 None of the above, but in this section

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Hou, Jin-Chuan Multiplicative maps on $\mathscr{B}(X)$. (English summary) **99k:47073**
Labbas, Rabah (*with* de Malafosse, Bruno) On some Banach algebra of infinite matrices and applications. (English summary) **99b:47038**
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Lauter, Robert An operator theoretical approach to enveloping Ψ^*- and C^*-algebras of Melrose algebras of totally characteristic pseudodifferential operators. (English summary) **99j:58201**
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46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

46J05 General theory of commutative topological algebras

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Esterle, Jean Propriétés multiplicatives universelles de certains quotients d'algèbres de Fréchet. (English and French summaries) [Universal multiplicative properties of certain quotients of Fréchet algebras] **99g:46069**
García Zapata, J. L. Finite morphisms between differentiable algebras. (English summary) **99k:46088**
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46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

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Beneker, Paul (*with* Wiegerinck, Jan) Strongly exposed points in uniform algebras. (English summary) **99m:46123**
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Dierolf, Susanne (*with* Schröder, K.-H.; Wengenroth, Jochen) Characters on certain function algebras. (English summary) **99k:46089**
Font, Juan J. Automatic continuity of certain isomorphisms between regular Banach function algebras. (English summary) **99a:46096**
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— On the greatest regular closed subalgebras and the Apostol algebras of L^p-multipliers whose Fourier transforms are continuous and vanish at infinity. (English summary) **99c:46059**
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Nakazi, Takahiko Some special bounded homomorphisms of a uniform algebra. (Japanese) (*see* **99i:00018**)
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Sady, F. Relations between Banach function algebras and Fréchet function algebras. (English summary) **99g:46072**
Salinger, David L. (*with* Stegeman, Jan D.) On some properties of the difference spectrum. (English summary) **99m:46125**
Saworotnow, Parfeny P. Banach algebras with commuting idempotents, no identity. **99i:46038**
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Athavale, Ameer GKS decomposition and spherical dilations. (English summary) **99h:47004**
Barnes, Bruce A. Boardman's theorem, vector-valued functions and compact perturbations. (English summary) **99i:46034**
Chojnacki, Wojciech (*with* Kisyński, Jan) On the Favard classes of semigroups associated with pseudo-resolvents. (English summary) **99m:47046**
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Galé, José E. (*with* White, Michael C.) An analytic semigroup version of the Beurling-Helson theorem. **99h:43007**
Gorkin, Pamela Hankel-type operators, Bourgain algebras, and uniform algebras. (English summary) **99g:47052**
Grigoryan, Suren Arshakovich (*with* Zaslavskaya, M. I.) Uniform algebras of operator fields with an AF-fiber. (Russian. English and Russian summaries) **99h:46108**
Khavinson, Dmitry (*with* Pérez-González, Fernando[2]; Shapiro, Harold S.) Approximation in L^1-norm by elements of a uniform algebra. (English summary) **99d:41064**
Khin Aye Aye *see* **Dierolf, Susanne**, **99h:46058**
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Klein, Udo Kompakte multiplikative Operatoren auf uniformen Algebren. [Compact multiplicative operators and uniform algebras] **99b:47043**
Kundu, Subiman (*with* Raha, A. B.) Addendum: "The bounded-open topology and its relatives" [Rend. Istit. Mat. Univ. Trieste **27** (1995), no. 1-2, 61–77; MR 98a:54011]. (English summary)
Matsumoto, Toshiko (*with* Watanabe, Seiji) Surjective linear isometries of the domain of a *-derivation equipped with the Cambern norm. **99m:46069**
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Oubbi, L. Pseudo-Banach structure in locally convex algebras. (English summary) **99e:46057**
Ouerdiane, H. Algèbres nucléaires de fonctions entières et équations aux derivées partielles stochastiques. [Nuclear algebras of entire functions and stochastic partial differential equations] **99k:60165**
Partington, Jonathan R. ★ Interpolation, identification, and sampling. **99m:41001**
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Pérez-González, Fernando[2] *see* **Khavinson, Dmitry; et al.**, **99d:41064**
Pirkovskiĭ, A. Yu. On the problem of the existence of a sufficient number of injective Fréchet modules over nonnormable Fréchet algebras. (Russian. Russian summary) **99k:46086**
Pisier, Gilles The similarity degree of an operator algebra. (English summary) **99c:46066**
Prolla, João B. (*with* Navarro, Samuel) Approximation results in the strict topology.

(English summary) **99a:46068**
Pugach, L. I. On the C-projectivity of ideals in Banach algebras. **99d:46070**
Raha, A. B. *see* **Kundu, Subiman**
Rassias, Themistocles M. Properties of isometries and approximate isometries. (English summary) **99f:51028**
Schweitzer, Larry B. C^∞ functions on the Cantor set, and a smooth m-convex Fréchet subalgebra of O_2. (English summary) **99g:46020**
Shapiro, Harold S. *see* **Khavinson, Dmitry; et al., 99d:41064**
Stukopin, V. A. On the classification of Banach algebras of singular integral operators with PC-coefficients in L_p spaces on complex contours. (Russian) **99k:47122**
Suciu, Elena Alina Spectral resolutions of Hilbert modules over a function algebra. (English summary) **99k:46087**
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46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [see also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]

Abdollahi, A. The maximal ideal space of analytic Lipschitz algebras. (English summary) **99d:46072**
Ali Mehmeti, Felix (*with* Nicaise, Serge) Banach algebras of functions on nonsmooth domains. (English summary) **99f:46074**
Allan, Graham R. (*with* Kakiko, Grayson; O'Farrell, Anthony G.; Watson, R. O.) Finitely-generated algebras of smooth functions, in one dimension. (English summary) **99m:46127**
Backlund, Ulf (*with* Fällström, Anders) Maximal ideals in $A(\Omega)$. (English summary) **99m:46128**
Cartan, Henri Théorie spectrale des C-algèbres commutatives (d'après L. Waelbroeck). [Spectral theory of commutative C-algebras (after L. Waelbroeck)] (*see* **99f:00035**)
Chakraborty, B. C. A B^*-algebra and a Banach lattice of a class of entire functions in several complex variables. (English summary) **99g:46073**
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Gorkin, Pamela (*with* Zheng, De Chao) Harmonic extensions and the Böttcher-Silbermann conjecture. (English summary) **99b:46075**
Guillory, Carroll (*with* Li, Kin Y.) Algebras of Blaschke products unimodular on trivial parts. (English summary) **99e:46064**
Hanin, Leonid G. Closed ideals in algebras of smooth functions. (English summary) **99e:46065**
Ishii, Takashi Topological characteristics of trivial points in a fiber. (Japanese) (*see* **99i:00018**)
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Suárez, Daniel Approximation by ratios of bounded analytic functions. (English summary) **99m:46129**
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Allan, Graham R. (*with* Kakiko, Grayson; O'Farrell, Anthony G.; Watson, R. O.) Algebras of smooth functions. (English summary) **99k:46090**
Almendra, Genaro On the spectra of invariant spaces of smooth functions. (Spanish. Spanish summary) **99i:46012**
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46J20 Ideals, maximal ideals, boundaries

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Decreux, Eric Idéaux fermés d'une algèbre de Beurling régulière. (English and French summaries) [Closed ideals of a regular Beurling algebra] **99f:46075**
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46J25 Representations of commutative topological algebras

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46J30 Subalgebras

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46J40 Structure, classification of commutative topological algebras

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46J45 Radical Banach algebras

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46J99 None of the above, but in this section

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46Kxx Topological (rings and) algebras with an involution [see also 16W10]

46K05 General theory of topological algebras with involution

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46K10 Representations of topological algebras with involution

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46K15 Hilbert algebras

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46K50 Nonselfadjoint (sub)algebras in algebras with involution

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— *see also* **Laurie, C., 99b:46084**

46K70 Nonassociative topological algebras with an involution [see also 46H70, 46L70]

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46K99 None of the above, but in this section

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46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [see also 22D25]

Bratteli, Ola (*with* Jorgensen, Palle E. T.) Isometries, shifts, Cuntz algebras and multiresolution wavelet analysis of scale N. (English summary) **99k:46094b**
— (*with* Jorgensen, Palle E. T.) Iterated function systems and permutation representations of the Cuntz algebra. (English summary) **99k:46094a**
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Research on Bimodules and Quantum Groups in Operator Algebras ★ Sayōso kan ni okeru sōkagun to ryōshi gun no kenkyū. (Japanese) [Research on bimodules and quantum groups in operator algebras] **99a:46002**

46L05 General theory of C^*-algebras

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Bratteli, Ola (*with* Jorgensen, Palle E. T.) A connection between multiresolution wavelet theory of scale N and representations of the Cuntz algebra $\mathcal{O}_N$. **99j:46062**
— (*with* Elliott, George A.; Evans, David E.; Kishimoto, Akitaka) Homotopy of a pair of approximately commuting unitaries in a simple C^*-algebra. (English summary) **99m:46132**
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Chan, Kit C. (*with* Čučković, Željko) C^*-algebras generated by a subnormal operator. (English summary) **99f:46079**
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— (*with* Rørdam, Mikael) Purely infinite, simple C^*-algebras arising from free product constructions. (English summary) **99d:46074**
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— (*with* Rørdam, Mikael) Projections in free product C^*-algebras. (English summary) **99d:46075**
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Fang, Xiao Chun The multiplier bimodule of a Hilbert bimodule. (Chinese. English and Chinese summaries) **99h:46107**
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Fragoulopoulou, Maria Tensor products of enveloping locally C^*-algebras. **99e:46069**
Frank, Michael ★ Beiträge zur Theorie der Hilbert-C^*-Moduln. (German. German summary) [Contributions to the theory of Hilbert C^*-modules] **99b:46082**
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— (*with* Størmer, Erling) On maximality of entropy in finite von Neumann algebras. **99m:46152**
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Haagerup, Uffe (*with* Størmer, Erling) Maximality of entropy in finite von Neumann algebras. (English summary) **99c:46069**
Katayama, Yoshikazu (*with* Takehana, Hiroaki) On automorphisms of generalized Cuntz algebras. (English summary) **99f:46083**
— (*with* Sutherland, Colin E.; Takesaki, Masamichi) The characteristic square of a factor and the cocycle conjugacy of discrete group actions on factors. **99f:46096**
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Muhly, Paul S. (*with* Solel, Baruch) On the simplicity of some Cuntz-Pimsner algebras. (English summary) **99m:46140**
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Ayupov, Shavkat A. (*with* Yadgorov, N. Dzh.) Geometry of the state spaces in quantum probability. (English summary) **99m:46150**
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— The noncommutative Hilbert transform approach to free entropy. (*see* **99d:00029**)
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— (*with* Lu, Yun Gang; Volovich, I. V.) Non-linear extensions of classical and quantum stochastic calculus and essentially infinite-dimensional analysis. **99f:81105**
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Choda, Marie Entropies of dynamical systems in operator algebras. **99f:46095**
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— (*with* Natsume, Toshikazu) Reduced C^*-crossed products by free shifts. (English summary) **99j:46080**
— (*with* Takehana, Hiroaki) A finite partition in a dynamical system with entropy depending on the size. (English summary) **99d:46089**
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Fang, Xiao Chun The amenability of crossed products with coactions. (Chinese. English and Chinese summaries) **99c:46080**
Fowler, Neal J. (*with* Raeburn, Iain) Discrete product systems and twisted crossed products by semigroups. (English summary) **99k:46118**
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— (*with* Størmer, Erling) Entropy of C^*-dynamical systems defined by bitstreams. (English summary) **99m:46157**
Hudetz, Thomas Quantum dynamical entropy revisited. (English summary) **99k:46119**
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— The classification of amenable group action on approximately finite-dimensional factors [translation of Sūgaku **48** (1996), no. 1, 1–11; MR 97d:46081]. (*see* **99h:00040**)
Kusuda, Masaharu Crossed products of co-C^*-algebras and their applications. (Japanese) (*see* **99i:46001**)
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Tomiyama, Jun Representations of topological dynamical systems and C^*-algebras. **99m:46158**
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Emch, Gérard G. Beyond irreducibility and back. (English summary) **99b:81058**
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Izumi, Hideaki Constructions of non-commutative L^p-spaces with a complex parameter arising from modular actions. (English summary) **99a:46114**
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— (*with* Leśniewski, Andrzej) Ergodic theorems for quantum Kronecker flows. (English summary) **99b:11090**
— (*with* Leśniewski, Andrzej) Quantum maps. (English summary) **99f:81059**
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Majewski, Adam W. (*with* Olkiewicz, Robert; Zegarlinski, Boguslaw) Dissipative dynamics for quantum spin systems on a lattice. (English summary) **99k:82053**
Majewski, Władysław Adam (*with* Marciniak, Marcin) On nonlinear Koopman's construction. (English summary) **99b:46105**
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Masuda, Toshihiko Classification of actions of discrete amenable groups on strongly amenable subfactors of type III_λ. (English summary) **99j:46072**
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Park, Yong Moon (*with* Shin, Hyun Hye) Dynamical entropy of generalized quantum Markov chains over infinite-dimensional algebras. (English summary) **99a:82011**
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Powers, Robert T. Recent results concerning E_0-semigroups of $\mathfrak{B}(\mathfrak{h})$. **99b:46104**
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Rieffel, Marc A. Metrics on states from actions of compact groups. (English summary) **99k:46126**
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Sutherland, Colin E. (*with* Takesaki, Masamichi) Right inverse of the module of approximately finite-dimensional factors of type III and approximately finite ergodic principal measured groupoids. **99k:46108**
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46L57 Derivations, dissipations and positive semigroups in C^*-algebras

Assadi, Amanollah (*with* Niknam, A.) On semigroups of linear operators. (English summary) (*see* **99a:00041**)
Kissin, Edward (*with* Shulman, Viktor S.) ★ Representations on Krein spaces and derivations of C^*-algebras. (English summary) **99d:46091**
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Mathieu, Martin Derivations implemented by local multipliers. (English summary) **99a:46122**
Niknam, A. Infinitesimal generators of C^*-algebras. (English summary) **99j:46083**
— *see also* **Assadi, Amanollah, (99a:00041)**
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Xu, Ben Long (*with* Ma, Ji Pu) A note on local derivations. (Chinese. English and Chinese summaries) **99g:46096**
Zeller-Meier, Georges Dérivations et automorphismes des algèbres d'opérateurs (d'après R. V. Kadison et J. R. Ringrose). [Derivations and automorphisms of operator algebras

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Barraa, Mohamed (*with* Pedersen, Steen) On the product of two generalized derivations. (English summary) **99m:47041**

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Cipriani, Fabio The variational approach to the Dirichlet problem in C^*-algebras. (English summary) **99i:46050**

Florig, Martin On Borchers' theorem. (English summary) **99k:46105**

Haagerup, Uffe (*with* Laustsen, Niels J.) Weak amenability of C^*-algebras and a theorem of Goldstein. (English summary) **99k:46096**

Kissin, Edward (*with* Shulman, Viktor S.) Differential Banach $*$-algebras of compact operators associated with symmetric operators. (English summary) **99h:47052**

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Lindsay, J. Martin (*with* Parthasarathy, Kalyanapuram Rangachari) On the generators of quantum stochastic flows. (English summary) **99k:81145**

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46L60 Applications of selfadjoint operator algebras to physics [see also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]

Baumgärtel, Hellmut (*with* Lledó, Fernando) Superselection structures for C^*-algebras with nontrivial center. (English summary) **99g:46097**

Belavkin, V. P. Quantum Itô B^*-algebras, their classification and decomposition. (English summary) **99g:46098**

Honegger, Reinhard (*with* Rieckers, Alfred) Unitary implementations of one-parameter squeezing groups. (English summary) **99d:46092**

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46M05 Tensor products [see also 46A32, 46B28, 47A80]

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Sharma, Srikant (*with* Kumar, Rajeev) Invariance of the countability axioms under locally convex tensor product. (English summary)
Sloan, Ian H. *see* **Novak, Erich; et al.**, **99c:65257**
Somerset, D. W. B. The central Haagerup tensor product of a C^*-algebra. (English summary) **99e:46073**
Woźniakowski, Henryk *see* **Novak, Erich; et al.**, **99c:65257**
Zalduendo, Ignacio *see* **Jaramillo, Jesús Angel; et al.**, **99a:46030**

46M07 Ultraproducts [see also 46B08, 46S20]

Items with secondary classifications in 46M07

Iovino, José Types on stable Banach spaces. (English summary) **99d:46013**
Raynaud, Yves Ultrapowers of Köthe function spaces. (English summary) **99b:46039**

46M10 Projective and injective objects [see also 46A22]

Items with secondary classifications in 46M10

Khelemskiĭ, A. Ya. Projective homological classification of C^*-algebras. **99c:46064**
Pirkovskiĭ, A. Yu. On the problem of the existence of a sufficient number of injective Fréchet modules over nonnormable Fréchet algebras. (Russian. Russian summary) **99k:46086**
Pugach, L. I. On the C-projectivity of ideals in Banach algebras. **99d:46070**

46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20.}

Kemper, Ralf Epimorphisms of separated superconvex spaces. (English summary) **99b:46114**
— Positively convex spaces. (English summary) **99m:46165**
— Injective and epi-projective objects in categories of convex spaces. (English summary) **99m:46166**

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Allan, Graham R. Stable elements of Banach and Fréchet algebras. (English summary) **99f:46072**
Berndt, Olaf A categorical definition of semidirect products. (English summary) **99h:18004**
Castillo, Jesús M. F. (*with* González, Manuel) ★ Three-space problems in Banach space theory. **99a:46034**
Fedorchuk, V. V. (*with* Sadovnichiĭ, Yu. V.) On some categorical properties of uniform spaces of probability measures. (English summary) **99b:46031**
García Zapata, J. L. Finite morphisms between differentiable algebras. (English summary) **99k:46088**
González, Manuel *see* **Castillo, Jesús M. F.**, **99a:46034**
Khelemskiĭ, A. Ya. Projective homological classification of C^*-algebras. **99c:46064**
Lee, Seok Jong (*with* Nel, Louis Daniel[1]) Foundational isomorphisms in continuous differentiation theory. (English summary) **99d:58027**
Monadi, A. On the closedness of the space of holomorphic maps. (English summary) **99c:46049**
Nel, Louis Daniel[1] *see* **Lee, Seok Jong**, **99d:58027**
Paolucci, Anna Braided tensor C^*-categories, Hecke symmetries and actions on extended Cuntz algebras. (English summary) **99j:46090**
Sadovnichiĭ, Yu. V. *see* **Fedorchuk, V. V.**, **99b:46031**
Schwartz, Laurent Sous-espaces hilbertiens et antinoyaux associés. (French summary) [Hilbert spaces and associated antikernels] (*see* **99f:00039**)
Tuynman, Gijs M. Functions of class C^k without derivatives. (English summary) **99d:46065**
Wengenroth, Jochen A new characterization of $\mathrm{Proj}^1\mathscr{X} = 0$ for countable spectra of (LB)-spaces. (English summary) **99f:46007**

46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]

Corach, Gustavo (*with* Galé, José E.) Averaging with virtual diagonals and geometry of

representations. (English summary) **99m:46167**
Dales, H. Garth (*with* Duncan, John) Second-order cohomology groups of some semigroup algebras. (English summary) **99m:46168**
Duncan, John *see* **Dales, H. Garth, 99m:46168**
Exel, Ruy Amenability for Fell bundles. (English summary) **99a:46131**
Galé, José E. *see* **Corach, Gustavo, 99m:46167**
Godement, Roger Sommes continues d'espaces de Hilbert. I. [Continuous sums of Hilbert spaces. I] (*see* **99f:00033**)
— Sommes continues d'espaces de Hilbert. II. [Continuous sums of Hilbert spaces. II] (*see* **99f:00033**)
Gouda, Y. Gh. On the cyclic and dihedral cohomology of Banach spaces. (English summary) **99a:46132**
Grønbæk, Niels Various notions of amenability, a survey of problems. (English summary) **99g:46107**
Lykova, Zinaida A. (*with* White, Michael C.) Excision in the cohomology of Banach algebras with coefficients in dual bimodules. (English summary) **99m:46169**
Pflaum, Markus J. On continuous Hochschild homology and cohomology groups. (English summary) **99e:46096**
Puschnigg, Michael ★ Asymptotic cyclic cohomology. **99e:46097**
— ★ Asymptotic cyclic cohomology. **99e:46098**
Scărlătescu, Silvia Vector bundles and K-theory over non-Archimedean topological algebras. (English summary) **99m:46170**
Selivanov, Yurii V. Homological dimensions of tensor products of Banach algebras. (English summary) **99m:46171**
Wang, Jing Yu *see* **Yang, Hai Tao; et al.**
Wang, Shu Zhong *see* **Yang, Hai Tao; et al.**
White, Michael C. *see* **Lykova, Zinaida A., 99m:46169**
Yang, Hai Tao (*with* Wang, Jing Yu; Wang, Shu Zhong) Measurable operator fields of π spaces. (Chinese. English and Chinese summaries)

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Abbondandolo, Alberto On the homotopy type of VMO. **99b:58038**
Ambrozie, Călin-Grigore Contributions to the study of perturbations of Fredholm complexes. (Romanian. English and Romanian summaries) **99m:47010**
— Noncompactness measure invariance of the index. (English summary) **99d:47011**
Brodzki, Jacek ★ An introduction to K-theory and cyclic cohomology. (English summary) **99h:19001**
Cuntz, Joachim Excision in periodic cyclic theory for topological algebras. (English summary) **99b:19003**
Domański, Paweł (*with* Vogt, D.) A splitting theorem for the space of smooth functions. (English summary) **99b:46001**
Donsig, Allan P. (*with* Power, S. C.) Homology for operator algebras. IV. On the regular classification of limits of 4-cycle algebras. (English summary) **99g:47109**
Douglas, Ronald G. (*with* Misra, Gadadhar) Geometric invariants for resolutions of Hilbert modules. **99g:46065**
Ghahramani, Fereidoun (*with* Selivanov, Yurii V.) The global dimension theorem for weighted convolution algebras. (English summary) **99h:46096**
Gouda, Y. Gh. Quaternion homology of Banach space. (English summary) **99m:46117**
Lykova, Zinaida A. Examples of Banach algebras over commutative Banach algebras of given homological dimension. (English summary) **99g:46063**
— Excision in Banach simplicial and cyclic cohomology. (English summary) **99e:46092**
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Paulsen, Vern I. Relative Yoneda cohomology for operator spaces. (English summary) **99j:46067**
Pirkovskiĭ, A. Yu. On the problem of the existence of a sufficient number of injective Fréchet modules over nonnormable Fréchet algebras. (Russian. Russian summary) **99k:46086**
Pisier, Gilles Operator spaces and similarity problems. (English summary) **99i:46045**
Power, S. C. Homology for operator algebras. III. Partial isometry homotopy and triangular algebras. (English summary) **99g:47108**
— *see also* **Donsig, Allan P., 99g:47109**
Roberts, John E. The cohomology and homology of quantum field theory. **99b:81137**
Selivanov, Yurii V. *see* **Ghahramani, Fereidoun, 99h:46096**
Sinclair, Allan M. (*with* Smith, Roger R.) The Hochschild cohomology problem for von Neumann algebras. (English summary) **99b:46110**
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Xu, Tianzhou Nonstable representable K-theory for σ-C^*-algebras. (English summary) **99m:46160**
Zaslavskaya, M. I. Some properties of uniform algebras of operator fields with an approximately finite-dimensional fiber. (Russian. English and Russian summaries) **99e:46063**

46M35 Abstract interpolation of topological vector spaces [see also 46B70]

Astashkin, S. V. Interpolation of positive polylinear operators in Calderón-Lozanovskiĭ spaces. (Russian. Russian summary) **99j:46091**
Bagdasaryan, A. G. On the interpolation properties of some quasilinearizable couples. (Russian. Russian summary) **99b:46115**
Berkolaĭko, G. M. On a functional of Peetre. (Russian. Russian summary) **99a:46133**
Brudnyĭ, Yu. A. (*with* Shteinberg, Alexander) Calderón constants of finite-dimensional couples. (English summary) **99e:46099**
Casini, Emanuele (*with* Salvatori, Maura) Complex interpolation and (n,δ)-convexity. (Italian summary) **99f:46107**
Cianchi, Andrea Interpolation of operators and the Sobolev embedding theorem in Orlicz spaces. (*see* **99d:00015**)
Cobos, Fernando (*with* Peetre, Jaak; Persson, Lars-Erik) On the connection between real and complex interpolation of quasi-Banach spaces. (English summary) **99g:46108**
— (*with* Persson, Lars-Erik) Real interpolation of compact operators between quasi-Banach spaces. (English summary) **99g:46109**
Ericsson, Stefan The E and K functionals for the pair $(X(A), l_\infty(B))$. (English summary) **99f:46108**
Krause, Martin Fredholm theory of interpolation morphisms. (English summary) **99h:46136**
Kutzarova, Denka (*with* Nikolova, Lyudmila I.; Prus, Stanisław) Infinite-dimensional geometric properties of real interpolation spaces. (English summary) **99e:46100**
Lions, Jacques-Louis Sur les théorèmes d'interpolation. [On interpolation theorems] (*see* **99f:00037**)
Mastyło, Mieczysław Interpolation spaces containing l_1. (English summary) **99c:46082**
Milman, Mario A note on interpolation and higher integrability. (English summary) **99b:46116**
Nikolova, Lyudmila I. *see* **Kutzarova, Denka; et al., 99e:46100**
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Peetre, Jaak *see* **Cobos, Fernando; et al., 99g:46108**
Persson, Lars-Erik *see* **Cobos, Fernando; et al., 99g:46108** *and* **99g:46109**
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Saxe, Karen On complex interpolation and spectral continuity. (English summary) **99d:46099**
Shteinberg, Alexander *see* **Brudnyĭ, Yu. A., 99e:46099**
Shvartsman, Pavel A geometrical approach to the K-divisibility problem. (English summary) **99d:46100**
Vogt, Hendrik On the constant in real Riesz-Thorin interpolation. (English summary) **99f:46109**

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Andersson, Mats Erik Integral means on radially weighted spaces of analytic functions. (English summary) **99j:46031**
Andruchow, Esteban (*with* Corach, Gustavo; Milman, Mario; Stojanoff, Demetrio) Geodesics and interpolation. (English summary) **99c:46063**
Artola, Michel Sur un théorème d'interpolation dans des espaces de Banach pondérés. (French summary) [An interpolation theorem in weighted Banach spaces] **99j:46040**
Astashkin, S. V. (*with* Kim, Yu. E.) Interpolation of bilinear operators in Marcinkiewicz spaces. (Russian. Russian summary) **99f:46035**
— Tensor product in symmetric function spaces. (English summary) **99a:46043**
Bagdasaryan, A. G. Interpolation of Lizorkin-Triebel-type spaces with different anisotropies. (Russian. Armenian summary)
Berezhnoĭ, E. I. (*with* Burenkov, Viktor I.) Refined interpolation theorems for a class of operators. (Russian. Russian summary) **99k:46041**
Besov, O. V. Interpolation of spaces of differentiable functions on a domain. (Russian) **99g:46039**
— Interpolation and embeddings of the spaces of generalized functions $B^r_{p,q}$ and $F^r_{p,q}$ on a domain. (Russian) **99k:46051**
Bojović, Dejan (*with* Jovanović, Boško S.) Application of interpolation theory to the analysis of the convergence rate for finite difference schemes of parabolic type. (English summary) **99b:65103**
Bu, Shangquan (*with* Guerre-Delabrière, Sylvie) Imaginary powers and interpolation spaces of unbounded operators. (English summary) **99c:47018**
— (*with* Clément, Philippe; Guerre-Delabrière, Sylvie) Regularity of pairs of positive operators. **99i:47019**
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Canuto, Claudio (*with* Tabacco Vignati, Anita) Multilevel decompositions of functional spaces. (English summary) **99e:46039**
Chen, Quande (*with* Zhou, Xinlong) Generalization of interpolation inequalities. (English summary) **99h:46050**
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Corach, Gustavo *see* **Andruchow, Esteban; et al., 99c:46063**
Cwikel, Michael (*with* Pustylnik, Evgenii) Sobolev type embeddings in the limiting case. (English summary) **99k:46055**
Di Blasio, Gabriella Limiting case for interpolation spaces generated by holomorphic semigroups. (English summary) **99k:47086**
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Ferenczi, V. (*with* Habala, P.) A uniformly convex Banach space whose subspaces fail Gordon-Lewis property. (English summary) **99j:46018**
Foralewski, Paweł (*with* Hudzik, Henryk) Some basic properties of generalized Calderon-Lozanovskiĭ spaces. (English summary) **99a:46046**
Fuhrman, Marco On the sum of generators of analytic semigroups. (English summary) **99d:47033**
— Sums of generators of analytic semigroups and multivalued linear operators. (English summary) **99d:47034**
Gianazza, Ugo (*with* Vespri, Vincenzo) Analytic semigroups generated by square Hörmander operators. (English summary) **99d:35064**
Guerre-Delabrière, Sylvie *see* **Bu, Shangquan, 99c:47018** *and* **99i:47019**
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Hu, Guo En (*with* Lu, Shan Zhen; Yang, Da Chun) The weak Herz spaces. (English and Chinese summaries) **99b:46034**
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Izumi, Hideaki Constructions of non-commutative L^p-spaces with a complex parameter arising from modular actions. (English summary) **99a:46114**

— ★ Non-commutative L^p-spaces constructed by the complex interpolation method. **99h:46120**
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Kita, Hiroō On interpolation of the Fourier maximal operator in Orlicz spaces. (English summary) **99j:42012**
Kruglyak, N. Yu. (*with* Matveev, E. R.) Onesided approximation and real interpolation. (English summary) **99h:46064**
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Kusainova, L. K. On the interpolation of weighted Sobolev spaces. (Russian. English, Russian and Kazakh summaries) **99f:46047**
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Nagel, Rainer Extrapolation spaces for semigroups. (English summary) **99g:47098**
Nakai, Eiichi Pointwise multipliers on Campanato spaces and Morrey spaces. (Japanese) (*see* **99i:00018**)
Ortega, Joaquín Ma. (*with* Fàbrega, Joan) Holomorphic Triebel-Lizorkin spaces. (English summary) **99a:46061**
Parvanov, P. E. A characterization of best multivariate algebraic approximations from below and from above in terms of K-functionals. (English summary) **99g:41027**
Passarelli Di Napoli, Antonia A local version of Rubio de Francia's extrapolation theorem. (English summary) **99f:46039**
Persson, Lars-Erik (*with* Kufner, Alois) Some difference inequalities with weights and interpolation. (English summary) **99e:46036**
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Pyatkov, S. G. Interpolation of some function spaces and indefinite Sturm-Liouville problems. (English summary) **99f:47060**
Radzievskiĭ, G. V. Direct and inverse theorems in problems of approximation by vectors of finite degree. (Russian. Russian summary) **99g:41034**
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Soardi, Paolo M. On quantitative Korovkin's theorem in multivariate Orlicz spaces. (English summary) **99m:41056**
Sobukawa, Takuya Extrapolation theorem on L^p spaces over infinite measure space: an approach $p \searrow p_0$. (English summary) **99b:46040**
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Tartar, Luc Imbedding theorems of Sobolev spaces into Lorentz spaces. (Italian summary) **99k:46060**
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Weisz, Ferenc Weak martingale Hardy spaces. (English summary) **99h:60092**
Xuan, Pei Cai (*with* Zhang, Zhen Qiu) The equivalence between weighted K-functionals and moduli of smoothness on a simplex and its applications. (Chinese. English and Chinese summaries) **99c:41065**
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Yang, Lihua Approximation order and interpolation spaces. (English summary) **99k:41006**
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46M40 Inductive and projective limits [see also 46A13]

Items with secondary classifications in 46M40

Allan, Graham R. Stable elements of Banach and Fréchet algebras. (English summary) **99f:46072**

46M99 None of the above, but in this section

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Haagerup, Uffe (*with* Winsløw, Carl) The Effros-Maréchal topology in the space of von Neumann algebras. (English summary) **99c:46071**
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Radenović, Stojan (*with* Kadelburg, Zoran) Some properties of short exact sequences of locally convex Riesz spaces. (English summary) **99e:46007**
Skalyga, V. I. Estimates for the derivatives of polynomials on convex bodies. (Russian) **99h:46079**
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46Nxx Miscellaneous applications of functional analysis [see also 47Nxx]

46N10 Applications in optimization, convex analysis, mathematical programming, economics

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Hanin, Leonid G. An extension of the Kantorovich norm. **99m:46173**
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Valadier, Michel Admissible functions in two-scale convergence. (English summary) **99a:46134**
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— (*with* Border, Kim C.; Burkinshaw, Owen) Market economies with many commodities. (English and Italian summaries) **99i:90025**
Baronti, Marco (*with* Casini, Emanuele) Simpson points in normed spaces. (Italian summary) **99c:46008**
Besada Morais, Manuel (*with* Váquez, C.) Weakly smooth preferences on Banach lattices. (English summary) **99b:90026**
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Borwein, Jonathan M. (*with* Moors, Warren B.) Essentially smooth Lipschitz functions: compositions and chain rules. (English summary) **99k:49031**
— (*with* Vanderwerff, Jon D.) Convex functions on Banach spaces not containing l_1. (English summary) **99a:46020**
— (*with* Moors, Warren B.) Null sets and essentially smooth Lipschitz functions. (English summary) **99g:49013**
— (*with* Moors, Warren B.) A chain rule for essentially smooth Lipschitz functions. (English summary) **99g:49014**
— (*with* Mordukhovich, Boris S.; Shao, Yongheng) On the equivalence of some basic principles in variational analysis. (English summary) **99j:49024**
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Cieslik, Dietmar The Steiner ratio of finite-dimensional L_p-spaces. (English summary) **99m:90149**
Combari, C. (*with* Elhilali Alaoui, A.; Levy, Adam B.; Poliquin, R. A.; Thibault, L.) Convex composite functions in Banach spaces and the primal lower-nice property. (English summary) **99b:49016**
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Guo, Xing Ming Proximal subdifferentials of lower semicontinuous functions and generalized mean value theorems. (Chinese. English and Chinese summaries) **99m:49026**
Ignaczak, Ewa (*with* Paszkiewicz, Adam) Extensions of convex functionals on convex cones. (English summary) **99j:46005**
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— (*with* Thibault, L.) Qualification conditions for calculus rules of coderivatives of multivalued mappings. (English summary) **99f:49021**
Kindler, Jürgen Intersection theorems, minimax theorems and abstract connectedness. **99i:47095**
Kružík, Martin (*with* Roubíček, Tomáš) On the measures of DiPerna and Majda. (English summary) **99c:49043**
Kurc, W. Monotonicity, order smoothness and duality for convex functionals. (English summary) **99b:46005**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Subdifferentials: theory and applications. (English summary) **99c:46001**
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Lassonde, Marc Hahn-Banach theorems for convex functions. (English summary) **99f:46008**
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Lu, Xuan Zhu Section property of super efficient points. (Chinese. English and Chinese summaries)
Matoušková, Eva (*with* Zajíček, Luděk) Second order differentiability and Lipschitz smooth points of convex functionals. **99m:46107**
Mel'nik, V. S. On the theory of the duality of vector and affine processes. (Russian. English and Ukrainian summaries) **99c:49036**
Moors, Warren B. *see* **Borwein, Jonathan M.**, **99g:49013**; **99g:49014** *and* **99k:49031**
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Pashaev, A. B. On the derivative of multi-valued functions. (English summary) (*see* **99a:00041**)
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Penot, Jean-Paul Subdifferential calculus and subdifferential compactness. (English summary) **99d:49034**
— Second-order conditions for optimization problems with constraints. (English summary) **99k:90160**
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Popoviciu, Nicolae Convexité en espaces métriques via l'efficience de Pareto. [Convexity in metric spaces via Pareto efficiency] **99j:90075**
Postolică, Vasile Recent remarks on supernormal cones. (English and Romanian

summaries) (*see* **99i:00027**)
Qiu, Qiu Sheng On the locally biorder-convex space and super-efficiency. (English summary) **99m:46009**
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Takahashi, Wataru Fan's existence theorem for the inequalities concerning convex functions and its applications. **99j:46006**
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Todd, Michael J. (*with* Ye, Yinyu) Approximate Farkas lemmas and stopping rules for iterative infeasible-point algorithms for linear programming. (English summary) **99h:90064**
Tolstonogov, A. A. Continuous selectors of multivalued mappings with nonclosed decomposable values, and their properties. (Russian) **99a:54013**
Uderzo, Amos On a generalized differentiability of operators. (English summary) **99d:49036**
Ursescu, Corneliu Multifunction openness and calculus of adjacent and tangent sets. (English summary) **99m:49030**
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— R-KKM type mapping theorems on G-H-spaces. (English summary)
— Intersection theorems on generalized H-convex sections. (English summary)
Wu, Bao Wei Realization of linear systems over a commutative Banach algebra. (Chinese. English and Chinese summaries) **99f:93024**
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— Generalizations of a theorem of Arrow, Barankin, and Blackwell in topological vector spaces. (English summary) **99b:90115**
Zhou, Feng[2] A remark on duality for the sum of convex functions in general Banach spaces. (English summary) **99k:49077**
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Hörmander, Lars On the Legendre and Laplace transformations. **99m:46175**
Stupyalis, L. Some problems in vector analysis. (Russian. Lithuanian summary) **99m:46176**

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Agapov, V. *see* **Kovalyov, M.**, **99g:35114**
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Asada, Akira Vector analysis on Sobolev spaces. II. (English summary) **99b:58010**
Aubin, Thierry ★ Some nonlinear problems in Riemannian geometry. (English summary) **99i:58001**
Bahouri, Hajer (*with* Gérard, Patrick; Xu, Chao-Jiang) Estimations de Strichartz généralisées sur le groupe de Heisenberg. [Generalized Strichartz estimates on the Heisenberg group] **99k:35026**
Beauzamy, Bernard Stability of the solutions of differential equations. (English summary) **99j:35006**
Berezanskiĭ, Yuriĭ Makarovich Direct and inverse spectral problems for a Jacobi field. (Russian. Russian summary) **99e:47029**
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Boĭmatov, K. Kh. On the Everitt and Giertz method for Banach spaces. (Russian) **99a:35044**
Burq, Nicolas Mesures semi-classiques et mesures de défaut. (French summary) [Semiclassical measures and defect measures] **99f:35011**
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Cialdea, A. The brothers Riesz theorem for conjugate differential forms in $\mathbf{R}^n$. (English summary) **99j:31009**
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Dai, Xingde (*with* Larson, David R.; Speegle, Darrin M.) Wavelet sets in $\mathbf{R}^n$. II. (English summary) **99d:42054**
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Dzhabrailov, M. S. On the coercive solvability of operator-differential equations in abstract Besov spaces. (Russian. English and Azerbaijani summaries) **99k:34128**
Fabes, Eugene B. (*with* Mendez, Osvaldo; Mitrea, Marius) Boundary layers on Sobolev-Besov spaces and Poisson's equation for the Laplacian in Lipschitz domains. (English summary) **99j:35036**
Franchi, Bruno (*with* Pérez, Carlos; Wheeden, Richard L.) Self-improving properties of John-Nirenberg and Poincaré inequalities on spaces of homogeneous type. (English summary) **99d:42042**
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— *see also* **Morimoto, Mitsuo**, **99f:35025**
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Ginibre, J. (*with* Velo, G.) Generalized Strichartz inequalities for the wave equation in homogeneous Besov spaces. (English summary) **99e:35125**
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Grande, R. (*with* Santucci, P.) Anisotropic Sobolev-Besicovitch spaces and a semielliptic differential equation. (English and Italian summaries) **99a:46059**
Grisvard, Pierre Méthodes opérationnelles dans l'étude des problèmes aux limites. [Operator methods in the study of boundary value problems] (*see* **99f:00041**)
Haußmann, Werner (*with* Kounchev, Ognyan I.) Variational property of the Peano kernel for harmonicity differences of order p. **99i:41031**
Hedenmalm, Håkan Recent developments in the function theory of the Bergman space. (English summary) **99i:30070**
Hieber, Matthias Gaussian estimates and invariance of the L^p-spectrum for elliptic operators of higher order. **99a:47061**
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Local harmonic analysis for domains in $\mathbf{R}^n$ of finite measure. (English summary) **99k:46039**
Kasimov, Sh. G. Uniform convergence of means of spectral expansions corresponding to elliptic pseudodifferential operators for continuous functions in the Nikol'skiĭ-Besov classes. (Russian. English and Uzbek summaries) **99e:35163**
Koch, Herbert Classical solutions to phase transition problems are smooth. (English summary) **99g:35147**
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Lelong, Pierre Ensembles de contrôle dans un espace de Banach complexe pour les fonctions plurisousharmoniques. (English summary) [Control sets in a complex Banach space for plurisubharmonic functions] **99b:32047**
Leray, Jean La résolution des problèmes de Cauchy et de Dirichlet au moyen du calcul symbolique et des projections orthogonales et obliques. [Solution of Cauchy and Dirichlet problems using symbolic calculus and orthogonal and oblique projections] (*see* **99f:00033**)
Li, Feng Quan A class of nonlinear and nonlocal boundary value problems for quasilinear parabolic equations. (Chinese. English and Chinese summaries) **99f:35100**
Li, Shu-Jie Some minimax theorems on finding nontrivial critical points and their applications. **99b:58051**
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Nicolosi, Francesco (*with* Skrypnik, Igor V.) Nirenberg-Gagliardo interpolation inequality and regularity of solutions of nonlinear higher order equations. **99a:35071**
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Przeworska-Rolewicz, Danuta ★ Logarithms and antilogarithms. (English summary) **99j:47002**
Robinson, Stephen B. (*with* Runst, Thomas) Solvability conditions for semilinear elliptic boundary value problems at resonance with bounded and unbounded nonlinear terms. (English summary) **99m:35081**
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Sheftel', Z. G. Problems with a shift in complete scales of Sobolev type spaces. (English summary) **99a:35058**
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Shutyaev, V. P. On data assimilation in a scale of Hilbert spaces for quasilinear evolution problems. (Russian. Russian summary) **99i:34087**
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Triebel, Hans ★ Fractals and spectra. **99b:46048**
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Veresova, A. T. (*with* Mosyagin, V. V.) Spaces with a multi-inner product in the theory of differential equations. (Russian. English and Russian summaries)
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Xu, Chao-Jiang *see* **Bahouri, Hajer; et al., 99k:35026**
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46N30 Applications in probability theory and statistics

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Ionescu, Valentin *see* **Cabanal-Duvillard, Thierry, 99a:46135**
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Brooks, J. K. (*with* Neal, David K.) Generalized stochastic integral for real and Hilbert processes. **99h:60106**
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van Neerven, J. M. A. M. Nonsymmetric Ornstein-Uhlenbeck semigroups in Banach spaces. (English summary) **99h:60083**
Nualart, David Analysis on Wiener space and anticipating stochastic calculus. **99k:60144**
Ramsay, J. O. (*with* Heckman, Nancy) Some theory for L-spline smoothing. (English summary) **99m:41015**
Rozanov, Yu. A. ★ Random fields and stochastic partial differential equations. (English summary) **99c:60107**
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Us, G. F. Towards a coloured noise analysis. (English summary) **99g:60079**
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Bratteli, Ola (*with* Jorgensen, Palle E. T.) Isometries, shifts, Cuntz algebras and multiresolution wavelet analysis of scale N. (English summary) **99k:46094b**
Butzer, Paul Leo (*with* Lei, Junjiang) Errors in truncated sampling series with measured sampled values for not-necessarily bandlimited functions. (English summary) **99m:42003**
Chen, Di-Rong On the construction of pre-wavelets in $L_2(\mathbf{R}^s)$. (English summary) **99a:42019**
Crombez, G. Finding projections onto the intersection of convex sets in Hilbert spaces. II. (English summary) **99d:65168**
D'yakonov, E. G. A posteriori error estimates, based on the use of weakened Sobolev spaces, for the solution of elliptic problems. (Russian) **99m:65235**
Hofmann, Bernd (*with* Tautenhahn, Ulrich) On ill-posedness measures and space change in Sobolev scales. (English summary) **99d:65191**
James, François Convergence results for some conservation laws with a reflux boundary condition and a relaxation term arising in chemical engineering. (English summary) **99h:65155**
Jorgensen, Palle E. T. *see* **Bratteli, Ola, 99k:46094b**
Kiss, B. (*with* Krebsz, A.) On a Toeplitz representation of the $H^{1/2}$ norm. (English summary) **99d:65350**
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Li, Shaofan (*with* Liu, Wing Kam) Synchronized reproducing kernel interpolant via multiple wavelet expansion. (English summary) **99e:65009**
Li, Yun Hui An interpolation approximation operator in the reproducing kernel space W_2^1. (Chinese. English and Chinese summaries)
Light, W. A. (*with* Wayne, Henry) Spaces of distributions, interpolation by translates of a basis function and error estimates. (English summary) **99m:65021**
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— (*with* Vaskevich, V. L.) ★ The theory of cubature formulas. (English summary) **99g:65029b**
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Bass, Jean Moyennes et algèbres de fonctions. (English and French summaries) [Mean values and algebras of functions] **99e:46101**
Grothaus, Martin (*with* Khandekar, Dinkar C.; da Silva, José L.; Streit, Ludwig) The Feynman integral for time-dependent anharmonic oscillators. (English summary) **99c:46083**
Hora, Akihito Central limit theorem for the adjacency operators on the infinite symmetric group. (English summary) **99i:46058**
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Monte, Roberto A quantum extension of transient Bessel processes. (English summary) **99b:46118**
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— (*with* Hashimoto, Yukihiro; Obata, Nobuaki) A role of singletons in quantum central limit theorems. (English summary) **99m:81110**
— (*with* Kozyrev, S. V.; Volovich, I. V.) The hot free algebra. (English summary) **99j:81087**
Akashi, Shigeo Quantum entropy theoretic aspects of the 13th problem formulated by Hilbert. (English summary) **99b:46095**
Albeverio, Sergio (*with* Gottschalk, Hanno; Wu, Jiang Lun) Remarks on some new models of interacting quantum fields with indefinite metric. (English summary) **99d:81071**
— (*with* Khrennikov, Andrei; Cianci, Roberto) A representation of the quantum field Hamiltonian in a p-adic Hilbert space. (Russian. English and Russian summaries) **99e:81125**
Antoine, J.-P. Quantum mechanics beyond Hilbert space. (English summary) **99h:81094**
Ayupov, Shavkat A. (*with* Yadgorov, N. Dzh.) Geometry of the state spaces in quantum probability. (English summary) **99m:46150**
Ban, Masashi Phase-space representation of quantum state vectors. (English summary) **99e:81118**
Binnenhei, Carsten $\mathcal{O}_\infty$ realized on Bose Fock space. (English summary) **99e:81128**
Bros, Jacques (*with* Epstein, Henri; Moschella, Ugo) Analyticity properties and thermal effects for general quantum field theory on de Sitter space-time. (English summary) **99i:81135**
Buchholz, Detlev (*with* Ojima, Izumi) Spontaneous collapse of supersymmetry. (Japanese. Japanese summary) (*see* **99b:00018**)

Chebotarëv, A. M. Quantum stochastic differential equation as a strong resolvent limit of the Schrödinger evolution. (English summary) **99i:81121**
— (*with* Viktorov, D. V.) Quantum stochastic processes arising from the strong resolvent limits of the Schrödinger evolution in Fock space. (English summary) **99m:81111**
— Quantum stochastic differential equation is unitarily equivalent to a symmetric boundary value problem in Fock space. (English summary) **99c:81111**
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Furlani, Edward P. Quantization and scattering of massive scalar fields on exterior domains. (English summary) **99g:81145**
Gielerak, R. (*with* Jakóbczyk, L.; Olkiewicz, Robert) Stochastically positive structures on Weyl algebras. The case of quasi-free states. (English summary) **99m:81124**
Golodets, Valentin Ya. (*with* Neshveev, S. V.) Non-Bernoullian quantum K-systems. (English summary) **99j:46081**
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Hennings, Mark A. (*with* Dubin, Daniel A.; Smith, Thomas B.) Dequantization techniques for Weyl quantization. (English summary) **99i:81118**
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Honegger, Reinhard (*with* Rieckers, Alfred) Squeezing of optical states on the CCR-algebra. (English summary) **99b:81093**
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— (*with* Rieckers, Alfred) Coherence properties of squeezed photon states. (English summary) **99h:81240**
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Ji, Un Cig *see* **Chung, Dong Myung; et al., 99m:81113**
Kalmbach, Gudrun ★ Quantum measures and spaces. (English summary) **99j:81014**
Keyl, Michael On causal compatibility of quantum field theories and space-times. (English summary) **99j:81099**
Khrennikov, Andrei Non-Kolmogorov probabilistic models with p-adic probabilities and foundations of quantum mechanics. **99m:81035**
— *see also* **Albeverio, Sergio; et al., 99e:81125**
(Kirchheimová, Hana) *see* **Riečan, Beloslav, 99e:28001**
(Kôpka, František) *see* **Riečan, Beloslav, 99e:28001**
Kozyrev, S. V. *see* **Accardi, Luigi; et al., 99j:81087**
Kupsch, Joachim (*with* Smolyanov, Oleg G.) Functional representations for Fock superalgebras. (English summary) **99i:81140**
Landsman, N. P. Essay review: *Quantum mechanics on phase space* [Kluwer Akad. Publ., Dordrecht, 1996; MR 97j:81004] by F. E. Schroeck, Jr.
Liebscher, Volkmar Diagonal versions and quantum stochastic integrals on the symmetric Fock space with nonadapted integrands. (English summary) **99k:81144**
— *see also* **Fichtner, K.-H.; et al., 99k:81141**
Lu, Yun Gang On the interacting free Fock space and the deformed Wigner law. **99a:81084**
Luo, Shun-Long *see* **Huang, Zhi Yuan, 99h:81127**
Lust-Piquard, Françoise Riesz transforms associated with the number operator on the Walsh system and the fermions. (English summary) **99h:81096**
Malyutin, V. B. Approximations of functional integrals generated by differential equations with coefficients from a commutative Banach superalgebra. (Russian. English and Russian summaries) **99f:58031**
Marolf, Donald Refined algebraic quantization: systems with a single constraint. (English summary) **99b:81117**
Moschella, Ugo *see* **Bros, Jacques; et al., 99i:81135**
Neretin, Yurii A. On the correspondence between the boson Fock space and the space L^2 with respect to Poisson measure. (Russian. Russian summary) **99j:28012**
Neshveev, S. V. *see* **Golodets, Valentin Ya., 99j:46081**
Neubrunn, Tibor *see* **Riečan, Beloslav, 99e:28001**
Nielsen, Erik Bjerrum (*with* Jensen, Ole Rask; Słowikowski, W.) On exponentials of quadratic expressions of field operators in connection with representation of infinite-dimensional Lie groups and algebras. (English summary) **99g:81106**
Obata, Nobuaki *see* **Accardi, Luigi; et al., 99k:46111**; **99m:81110** *and* **Chung, Dong Myung; et al., 99m:81113**
Ohya, Masanori Complexities and their applications to characterization of chaos. (English summary) **99h:81056**
Ojima, Izumi *see* **Buchholz, Detlev, (99b:00018)**
Olkiewicz, Robert *see* **Gielerak, R.; et al., 99m:81124**
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Integral, measure, and ordering. (English summary) **99e:28001**
(Riečanová, Zdenka) *see* **Riečan, Beloslav, 99e:28001** *and* **Kalmbach, Gudrun, 99j:81014**
Rieckers, Alfred *see* **Honegger, Reinhard, 99b:81093** *and* **99h:81240**
Robinson, Paul L. Quadratic Weyl representations. (English summary) **99g:81107**
(Schroeck, Franklin E., Jr.) *see* **Landsman, N. P.**
Segal, Irving (*with* Zhou, Zhengfang) Conformal extension of massive wave functions. (English summary) **99e:81083**
Seising, Rudolf ★ Probabilistische Strukturen der Quantenmechanik. (German. German summary) [Probabilistic structures of quantum mechanics] **99k:81011**
Skeide, Michael Hilbert modules in quantum electrodynamics and quantum probability. (English summary) **99b:81122**
Słowikowski, W. *see* **Nielsen, Erik Bjerrum; et al., 99g:81106**
Smith, Thomas B. *see* **Hennings, Mark A.; et al., 99i:81118**
Smolyanov, Oleg G. *see* **Kupsch, Joachim, 99i:81140**
Solov'ev, M. A. On the spectral condition for infrared-singular quantum fields. (Russian. English and Russian summaries) **99c:81128**
— Use of nontempered distributions to handle infrared singularities. (English summary) (*see* **99h:81006**)
— A uniqueness theorem for distributions and its application to nonlocal quantum field theory. (English summary) **99e:81134**
Steeb, Willi-Hans ★ Hilbert spaces, wavelets, generalised functions and modern quantum mechanics. (English summary) **99m:81002**
Stochel, Jerzy B. Representation of generalised creation and annihilation operators in Fock space. **99a:47056**
Thomas, Launey J., III (*with* Wichmann, Eyvind H.) On a class of distributions of interest in quantum field theory. (English summary) **99d:81070**
Tsirelson, Boris (*with* Vershik, Anatoliĭ Moiseevich) Examples of nonlinear continuous tensor products of measure spaces and non-Fock factorizations. **99c:60085**
Vershik, Anatoliĭ Moiseevich *see* **Tsirelson, Boris, 99c:60085**
Viktorov, D. V. *see* **Chebotarëv, A. M., 99m:81111**
Volovich, I. V. *see* **Accardi, Luigi; et al., 99j:81087**
Wichmann, Eyvind H. *see* **Thomas, Launey J., III, 99d:81070**
Wright, J. D. Maitland Decoherence functionals for von Neumann quantum histories: boundedness and countable additivity. (English summary) **99d:46093**
Wu, Jiang Lun *see* **Albeverio, Sergio; et al., 99d:81071**
Yadgorov, N. Dzh. *see* **Ayupov, Shavkat A., 99m:46150**
Zelditch, Steven Index and dynamics of quantized contact transformations. (English and French summaries) **99a:58082**
Zhou, Zhengfang *see* **Segal, Irving, 99e:81083**

46N55 Applications in statistical physics

Items with secondary classifications in 46N55

Antoniou, Ioannis (*with* Gustafson, Karl; Suchanecki, Z.) From stochastic semigroups to chaotic dynamics. (English summary) **99e:82055**
Evans, David E. (*with* Kawahigashi, Yasuyuki) ★ Quantum symmetries on operator algebras. **99m:46148**
Gustafson, Karl *see* **Antoniou, Ioannis; et al., 99e:82055**
Kawahigashi, Yasuyuki *see* **Evans, David E., 99m:46148**
Kunhardt, Walter On infravacua and superselection theory. (English summary) **99h:81125**
Liebscher, Volkmar A Gibbs theory for states of boson systems. (English summary) **99k:82011**
Matsui, Taku Positive energy representations for quantum spin models in $1+1$ dimensions. (English summary) **99m:82032**
Suchanecki, Z. *see* **Antoniou, Ioannis; et al., 99e:82055**

46N60 Applications in biology and other sciences

Items with secondary classifications in 46N60

Beder, Jay H. (*with* Gomulkiewicz, Richard) Computing the selection gradient and evolutionary response of an infinite-dimensional trait. (English summary) **99f:92009**
Gomulkiewicz, Richard *see* **Beder, Jay H., 99f:92009**

46N99 None of the above, but in this section

Items with secondary classifications in 46N99

Balasin, Herbert Distributional energy-momentum tensor of the extended Kerr geometry. (English summary) **99f:83009**
Nazarov, Fedor The Bang solution of the coefficient problem. (Russian) **99e:42049**
Wilson, Jonathan P. Distributional curvature of time dependent cosmic strings. (English summary) **99e:83018**

46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

Alghoussein, Ahmad *see* **Hassan, Mouna, 99d:46101**
Araujo, Jesús Non-Archimedean Šilov boundaries and multiplicative isometries. **99e:46102**
Boutabaa, Abdelbaki (*with* Escassut, Alain) On uniqueness of p-adic meromorphic functions. (English summary) **99a:46136**
Caldas Cueva, Miguel A non-Archimedean analogue of c-infrabarrelled spaces. (Spanish. English and Spanish summaries) **99m:46178**
— A non-Archimedean analogue of c-infrabarrelled spaces. (Spanish. English and Spanish summaries) **99k:46130**

De Smedt, Stany Local invertibility of non-Archimedean vector-valued functions. (English summary) **99k:46131**
Escassut, Alain (*with* Mainetti, Nicolas) Spectral semi-norm of a p-adic Banach algebra. (English summary) **99b:46119**
— *see also* **Boutabaa, Abdelbaki, 99a:46136**
Hassan, Mouna (*with* Alghoussein, Ahmad) A note on modular spaces over a field with valuation. (English summary) **99d:46101**
Ismagilov, R. S. Ultrametric spaces and related Hilbert spaces. (Russian. Russian summary) **99f:46110**
Khrennikov, Andrei p-adic valued probability measures. (English summary) **99e:46103**
Lyudkovskiĭ, S. V. Embeddings of non-Archimedean Banach manifolds into non-Archimedean Banach spaces. (Russian)
Mainetti, Nicolas *see* **Escassut, Alain, 99b:46119**
Narang, T. D. Characterizations of elements of best approximation and ε-approximation in non-Archimedean normed spaces. **99a:46137**
Ochsenius, Maria H. (*with* Schikhof, Wilhelmus H.) Norm Hilbert spaces. (English summary) **99k:46132**
Pérez-García, Cristina (*with* Schikhof, Wilhelmus H.) p-adic barrelledness and spaces of countable type. (English summary) **99m:46179**
Rangan, G. Recent trends in p-adic functional analysis. (*see* **99h:00036**)
— p-adic functional analysis and applications. **99g:46110**
Schikhof, Wilhelmus H. *see* **Ochsenius, Maria H., 99k:46132** *and* **Pérez-García, Cristina, 99m:46179**
Verdoodt, Ann Non-Archimedean umbral calculus. (English summary) **99g:46111**

Items with secondary classifications in 46S10

Aguayo, José (*with* De Grande-De Kimpe, N.; Navarro, Samuel) Zero-dimensional pseudocompact and ultraparacompact spaces. **99f:54030**
Albeverio, Sergio (*with* Khrennikov, Andrei) A regularization of quantum field Hamiltonians with the aid of p-adic numbers. (English summary) **99f:81117**
Araujo, Jesús N-compactness and automatic continuity in ultrametric spaces of bounded continuous functions. (English summary) **99j:54020**
Bikulov, A. Kh. (*with* Volovich, I. V.) p-adic Brownian motion. (Russian. Russian summary) **99b:60006**
Borceux, Francis (*with* Grandjean, Françoise) Descent theory and Morita theory for ultrametric Banach modules. (English summary) **99e:46058**
Boutabaa, Abdelbaki (*with* Escassut, Alain; Haddad, Labib) On uniqueness of p-adic entire functions. (English summary) **99j:30051**
Chand, D. K. *see* **Singh, Bijendra**
De Grande-De Kimpe, N. *see* **Aguayo, José; et al., 99f:54030**
Escassut, Alain Dissociated functions and p-adic characters. (English summary) **99m:12013**
— *see also* **Boutabaa, Abdelbaki; et al., 99j:30051**
Grandjean, Françoise *see* **Borceux, Francis, 99e:46058**
Haddad, Labib *see* **Boutabaa, Abdelbaki; et al., 99j:30051**
Jang, Young Ho ★ Non-Archimedean quantum mechanics. **99c:81002**
Keller, Hans Arwed (*with* Ochsenius A., Herminia) On the geometry of orthomodular spaces over fields of power series. (English summary) **99f:47095**
Khrennikov, Andrei p-adic analogues of the law of large numbers and the central limit theorem. **99b:11085**
— Non-Kolmogorov probabilistic models with p-adic probabilities and foundations of quantum mechanics. **99m:81035**
— *see also* **Albeverio, Sergio, 99f:81117**
Kochubeĭ, A. N. Harmonic oscillator in characteristic p. (English summary) **99f:11155**
Leonov, N. N. ε-entropy of sets in ultrametric spaces. (Russian. English and Russian summaries) **99i:41036**
Manchanda, P. Hensel's lemma for normed rings. (English summary) **99b:16069**
Navarro, Samuel *see* **Aguayo, José; et al., 99f:54030**
Ochsenius A., Herminia *see* **Keller, Hans Arwed, 99f:47095**
Savas, Ekrem On almost summable sequences and core of a sequence in non-Archimedean spaces. (English summary) **99e:40009**
Scărlătescu, Silvia Vector bundles and K-theory over non-Archimedean topological algebras. (English summary) **99m:46170**
Singh, Bijendra (*with* Chand, D. K.) Non-Archimedean 2-Banach space valued almost periodic functions. (English summary)
Somasundaram, D. On a matrix transformation over non-Archimedian fields. (English summary) **99c:40013**
Verlinden, Pierre p-adic Euler-Maclaurin expansions. (English summary) **99d:41052**
Vladimirov, V. S. Some problems of analysis on the field of p-adic numbers. (English summary) **99e:11147**
Volovich, I. V. *see* **Bikulov, A. Kh., 99b:60006**
Yasuda, Kumi Additive processes on local fields. (English summary) **99b:60051**
Zheng, Wei Xing *see* **Zhou, Guangcai, 99c:22014** *and* **Zhu, Yue Ping, 99m:46093**
Zhou, Guangcai (*with* Zheng, Wei Xing) Convolution operators on $H^p(H_k^n)$. (English summary) **99c:22014**
Zhu, Yue Ping (*with* Zheng, Wei Xing) Besov spaces and Herz spaces on local fields. (English summary) **99m:46093**

46S20 Nonstandard functional analysis [see also 03H05]

Items with secondary classifications in 46S20

Baratella, Stefano (*with* Ng, Siu-Ah) Fixed points in the nonstandard hull of a Banach space. **99f:47075**
Borde, Pascal Strongly near-standard functions in Lebesgue's spaces. (English summary) **99j:28019**
Cutland, Nigel J. (*with* Zimmer, G. Beate) A new proof of the Banach-Stone theorem. (English summary) **99a:46042**
Liu, Pu Yin Nonstandard analysis of test function spaces. (Chinese. English and Chinese summaries) **99f:46053**
Ng, Siu-Ah *see* **Baratella, Stefano, 99f:47075**
Veksler, A. I. Finitely extendable functionals on vector lattices. (English summary) **99k:46011**
Zimmer, G. Beate An extension of the Bochner integral generalizing the Loeb-Osswald integral. **99a:28020**
— *see also* **Cutland, Nigel J., 99a:46042**

46S30 Constructive functional analysis [see also 03F65]

Items with secondary classifications in 46S30

Bridges, Douglas (*with* Richman, Fred; Wang, Yuchuan) Sets, complements and boundaries. (English summary) **99f:03087**
— (*with* Ishihara, Hajime) A definite constructive open mapping theorem? (English summary) **99f:46009**
— (*with* Wang, Yuchuan) Weak solutions of the Dirichlet problem and the locatedness of $H_0^1(\Omega)$. (English summary) **99c:35029**
— (*with* Dudley Ward, Nicholas F.) Constructing ultraweakly continuous functionals on $\mathscr{B}(H)$. (English summary) **99a:47067**
Dudley Ward, Nicholas F. *see* **Bridges, Douglas, 99a:47067**
Ishihara, Hajime *see* **Bridges, Douglas, 99f:46009**
Richman, Fred *see* **Bridges, Douglas; et al., 99f:03087**
Wang, Yuchuan *see* **Bridges, Douglas, 99c:35029** *and* **99f:03087**

46S40 Fuzzy functional analysis [see also 04A72]

Arshad, Muhammad *see* **Beg, Ismat; et al., 99m:46180**
Bao, Yu E Some results on lattice fuzzy topological linear spaces. (Chinese. English and Chinese summaries)
Beg, Ismat (*with* Arshad, Muhammad; Shabir, Muhammad) Fuzzy almost linear spaces. (English summary) **99m:46180**
Cho, Eui Whan (*with* Kim, Young Key; Shin, Chae Seob) Fuzzy semi-inner-product space. (English summary)
Gal, Sorin G. Fuzzy variant of the Stone-Weierstrass approximation theorem. **99d:46102**
Jang, Lee-Chae (*with* Kwon, Joong-Sung) A note on law of large numbers for fuzzy numbers in a Banach space. (English summary) **99f:46111**
Jin, Cong Fuzzy barrelled spaces. (Chinese. English and Chinese summaries)
Kim, Young Key *see* **Cho, Eui Whan; et al.**
Kwon, Joong-Sung *see* **Jang, Lee-Chae, 99f:46111**
Shabir, Muhammad *see* **Beg, Ismat; et al., 99m:46180**
Shin, Chae Seob *see* **Cho, Eui Whan; et al.**
Xu, He Qing Locally semiconvex fuzzy topological vector spaces. (Chinese. English and Chinese summaries) **99c:46085**
Yan, Cong-Hua Two generating mappings ω_L and ι_L in complete lattices TVS and LFTVS. (English summary) **99f:46112**
Yan, Shi Yu Continuity of fuzzy linear functionals on L-fuzzy topological vector spaces. (Chinese. English and Chinese summaries) **99h:46137**

Items with secondary classifications in 46S40

Jose, Magie *see* **Xavier, D. Antony; et al., 99k:46008**
Santiago, M. L. *see* **Xavier, D. Antony; et al., 99k:46008**
Wang, Xiaomin[2] *see* **Xue, Xiao Ping[1]; et al., 99k:28028**
Wu, Lizhong *see* **Xue, Xiao Ping[1]; et al., 99k:28028**
Xavier, D. Antony (*with* Jose, Magie; Santiago, M. L.) Open mapping theorem in fuzzy normed spaces. (English summary) **99k:46008**
Xue, Xiao Ping[1] (*with* Wang, Xiaomin[2]; Wu, Lizhong) On the convergence and representation of random fuzzy number integrals. (English summary) **99k:28028**

46S50 Functional analysis in probabilistic metric linear spaces

Beg, Ismat Approximation in random normed spaces. (English summary) **99a:46138**
Lafuerza Guillén, Bernardo (*with* Rodríguez Lallena, José Antonio; Sempi, Carlo) Some classes of probabilistic normed spaces. (English and Italian summaries) **99d:46103**
Rodríguez Lallena, José Antonio *see* **Lafuerza Guillén, Bernardo; et al., 99d:46103**
Sempi, Carlo *see* **Lafuerza Guillén, Bernardo; et al., 99d:46103**

Items with secondary classifications in 46S50

Guo, Tie-Xin (*with* Liu, Mingxue) Probabilistic quasi-metric family spaces. (English and Chinese summaries)
Li, Xin[3] (*with* Mikusiński, Piotr; Taylor, M. D.) Strong approximation of copulas. (English summary) **99j:60029**
Liu, Mingxue On probabilistic metrics and numerical metrics. (English and Chinese summaries)
— *see also* **Guo, Tie-Xin**
Luo, Qun Properties of positive operators and orthogonal projection operators on random inner product modules. (Chinese. English and Chinese summaries) **99k:47185**
Mikusiński, Piotr *see* **Li, Xin[3]; et al., 99j:60029**
Taylor, M. D. *see* **Li, Xin[3]; et al., 99j:60029**

46S99 None of the above, but in this section

Items with secondary classifications in 46S99

Gunawardena, Jeremy An introduction to idempotency. **99b:16072**
Klement, Erich Peter (*with* Navara, Mirko) A characterization of tribes with respect to the Łukasiewicz t-norm. (English summary) **99c:28060**
Navara, Mirko *see* **Klement, Erich Peter, 99c:28060**

47–XX Operator theory

47–01 Instructional exposition (textbooks, tutorial papers, etc.)

Douglas, Ronald G. ★ Banach algebra techniques in operator theory. (English summary) **99c:47001**
Halmos, Paul R. ★ Introduction to Hilbert space and the theory of spectral multiplicity. **99g:47001**
Schröder, Herbert ★ Funktionalanalysis. (German. German summary) [Functional analysis] **99j:47001**
Sunder, V. S. ★ Functional analysis. (English summary) **99h:47001**

Items with secondary classifications in 47–01

Debnath, Lokenath (*with* Mikusiński, Piotr) ★ Introduction to Hilbert spaces with applications. (English summary) **99k:46001**
Hirsch, Francis (*with* Lacombe, Gilles) ★ Elements of functional analysis. (English summary) **99j:46001**
Lacombe, Gilles *see* **Hirsch, Francis**, **99j:46001**
Lax, Peter D. ★ Linear algebra. (English summary) **99c:15001**
(Levy, Silvio) *see* **Hirsch, Francis**, **99j:46001**
Megginson, Robert E. ★ An introduction to Banach space theory. (English summary) **99k:46002**
Mikusiński, Piotr *see* **Debnath, Lokenath**, **99k:46001**
Mitrović, Dragiša (*with* Žubrinić, Darko) ★ Fundamentals of applied functional analysis. (English summary) **99f:46001**
Paumier, Jean-Claude ★ Bifurcations et méthodes numériques. (French. French summary) [Bifurcations and numerical methods] **99k:00003**
Slyusarchuk, V. E. A property of absolutely converging numerical series. (Russian) **99h:40008**
Stakgold, Ivar ★ Green's functions and boundary value problems. (English summary) **99a:35002**
Žubrinić, Darko *see* **Mitrović, Dragiša**, **99f:46001**

47–02 Research exposition (monographs, survey articles)

Baskakov, A. G. ★ Гармонический анализ линейных операторов. (Russian. Russian summary) [Harmonic analysis of linear operators] **99g:47002**
(Binderman, Zbigniew) *see* **Przeworska-Rolewicz, Danuta**, **99j:47002**
Gorbachuk, M. L. (*with* Gorbachuk, V. I.) ★ M. G. Krein's lectures on entire operators. (English summary) **99f:47001**
Gorbachuk, V. I. *see* **Gorbachuk, M. L.**, **99f:47001**
(Kreĭn, Mark Grigor'evich) *see* **Gorbachuk, M. L.**, **99f:47001**
Nikol'skiĭ, Nikolai K. (*with* Vasyunin, V. I.) Elements of spectral theory in terms of the free function model. I. Basic constructions. (English summary) **99e:47001**
Przeworska-Rolewicz, Danuta ★ Logarithms and antilogarithms. (English summary) **99j:47002**
Stone, Marshall Harvey ★ Linear transformations in Hilbert space. **99k:47001**
Vasyunin, V. I. *see* **Nikol'skiĭ, Nikolai K.**, **99e:47001**

Items with secondary classifications in 47–02

Conway, John B. (*with* Yang, Li Ming) Some open problems in the theory of subnormal operators. (English summary) **99e:47027**
Kheĭfets, A. Ya. The abstract interpolation problem and applications. (English summary) **99e:47021**
Peller, Vladimir V. An excursion into the theory of Hankel operators. (English summary) **99e:47033**
Sadosky, Cora Liftings of kernels shift-invariant in scattering systems. (English summary) **99e:47034**
Vinnikov, Victor Commuting operators and function theory on a Riemann surface. (English summary) **99e:47018**
Yang, Li Ming *see* **Conway, John B.**, **99e:47027**

47–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 47–03

(Lax, Peter D.) *see* **Sarnak, Peter**, **99m:35001**
Navarro, Milagros P. A short survey of some works on the invariant subspace problem. (English summary) **99h:47009**
Przeworska-Rolewicz, Danuta Short story of the term "algebraic analysis". (English summary) **99h:01006**
Sarnak, Peter A sample of Lax's contributions to classical analysis, linear partial differential equations and scattering theory. **99m:35001**

47–06 Proceedings, conferences, collections, etc.

(Bercovici, Hari) *see* **Nonselfadjoint operator algebras, operator theory, and related topics**, **99b:47001**
(Foias, Ciprian) *see* **Nonselfadjoint operator algebras, operator theory, and related topics**, **99b:47001**
(Gohberg, Israel) *see* **Differential and integral operators**, **99d:47001** *and* **Recent progress in operator theory**, **99d:47002**
(Mennicken, R.) *see* **Differential and integral operators**, **99d:47001** *and* **Recent progress in operator theory**, **99d:47002**
(Pearcy, Carl M.) *see* **Nonselfadjoint operator algebras, operator theory, and related topics**, **99b:47001**
(Tretter, Christiane) *see* **Differential and integral operators**, **99d:47001** *and* **Recent progress in operator theory**, **99d:47002**

Items listed otherwise than by author

Birthday:
  Pearcy, Carl M. ★ Nonselfadjoint operator algebras, operator theory, and related topics. **99b:47001**
Conference:
  Operator Theory ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Differential and integral operators ★ Differential and integral operators. **99d:47001**
Festschrift:
  Pearcy, Carl M. ★ Nonselfadjoint operator algebras, operator theory, and related topics. **99b:47001**
Inequalities in operator theory and related topics ★ Sayōso ron ni okeru futōshiki to sono shūhen. (Japanese) [Inequalities in operator theory and related topics] **99f:47002**
Nonselfadjoint operator algebras, operator theory, and related topics ★ Nonselfadjoint operator algebras, operator theory, and related topics. **99b:47001**
Recent progress in operator theory ★ Recent progress in operator theory. **99d:47002**
Regensburg ★ Differential and integral operators. **99d:47001**
— ★ Recent progress in operator theory. **99d:47002**
Reports:
  Conference on Operator Theory ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Symposium:
  Inequalities in Operator Theory and Related Topics ★ Sayōso ron ni okeru futōshiki to sono shūhen. (Japanese) [Inequalities in operator theory and related topics] **99f:47002**
Timişoara ★ Report on the Sixteenth Conference on Operator Theory. **99i:47001**
Workshop:
  Operator Theory and Applications ★ Differential and integral operators. **99d:47001**
  — ★ Recent progress in operator theory. **99d:47002**

Items with secondary classifications in 47–06

(Antoniou, Ioannis) *see* **Generalized functions, operator theory, and dynamical systems**, **99k:00030**
(Axler, Sheldon) *see* **Holomorphic spaces**, **99a:00028**
(Bohm, Arno) *see* **Irreversibility and causality**, **99b:81003**
(Doebner, Heinz-Dietrich) *see* **Irreversibility and causality**, **99b:81003**
(Ge, Liming) *see* **Operator algebras and operator theory**, **99h:46001**
(Jain, Pawan Kumar) *see* **Functional analysis**, **99h:00036**
(Kamthan, Pawan Kumar) *see* **Functional analysis**, **99h:00036**
(Kielanowski, Piotr) *see* **Irreversibility and causality**, **99b:81003**
(Lin, Huaxin) *see* **Operator algebras and operator theory**, **99h:46001**
(Lumer, Günter) *see* **Generalized functions, operator theory, and dynamical systems**, **99k:00030**
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Bès, Juan P. Invariant manifolds of hypercyclic vectors for the real scalar case. (English summary) **99i:47002**

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Chen, Guo Liang[1] (*with* Xue, Yifeng) The expression of the generalized inverse of the perturbed operator under Type I perturbation in Hilbert spaces. (English summary) **99k:47002**

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Phelps, R. R. (*with* Simons, Stephen) Unbounded linear monotone operators on nonreflexive Banach spaces. (English summary) **99k:47003**

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Duncan, Richard Weak convergence of spectral measures. (English summary) **99a:47004**

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Koliha, J. J. (*with* Mbekhta, Mostafa; Müller, Vladimír; Poon, Pak Wai) Corrigendum and addendum: "On the axiomatic theory of spectrum. II" [Studia Math. **119** (1996), no. 2, 129–147; MR 97c:47005] by Mbekhta and Müller. (English summary) **99d:47003**

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Li, Wing Suet (*with* Timotin, Dan) The central Ando dilation and related orthogonality properties. (English summary) **99d:47007**
Malamud, M. M. (*with* Mogilevskii, V. I.) On extensions of dual pairs of operators. (Ukrainian summary) **99k:47016**
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Arov, Damir Z. Inversion formulas for compressions of block-Toeplitz operators. (English summary) **99e:47032**
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Azizov, T. Ya. (*with* Dijksma, Aad) Contractive linear relations in Pontryagin spaces. (English summary) **99h:47042**
Badea, Cătălin (*with* Mbekhta, Mostafa) Compressions of resolvents and maximal radius of regularity. (English summary) **99j:47005**
Bercovici, Hari Hyper-reflexivity and the factorization of linear functionals. (English summary) **99g:47105**
Blower, Gordon Bilinear forms on vector Hardy spaces. (English summary) **99b:46051**
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Popescu, Gelu Universal operator algebras associated to contractive sequences of non-commuting operators. (English summary) **99m:47054**
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47A25 Spectral sets

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deLaubenfels, Ralph Similarity to a contraction, for power-bounded operators with finite peripheral spectrum. (English summary) **99a:47001**

47A30 Norms (inequalities, more than one norm, etc.)

Bhatia, Rajendra (*with* Kittaneh, Fuad; Li, Ren-Cang) Some inequalities for commutators and an application to spectral variation. II. (English summary) **99f:47014**
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Lin, Chia-Shiang On Halmos' sharpening of Reid's inequality. (French summary) **99a:47015**
— The unilateral shift and a norm equality for bounded linear operators. (English summary) **99i:47013**
Uchiyama, Mitsuru Norms and determinants of products of logarithmic functions of positive semi-definite operators. (English summary) **99c:47007**

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Arens, Richard (*with* Goldberg, Moshe) Multilinear operators and weighted l_1 norms. (English summary) **99b:15033**
— (*with* Goldberg, Moshe; Luxemburg, W. A. J.) Stable seminorms revisited. (English summary) **99c:15047**
Azarnova, T. V. Estimates for the elements of inverse matrices for some classes of bounded linear operators. (Russian) **99e:47057**
Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) On exact inequalities of Landau-Hadamard-Kolmogorov type for functions of several variables. (Russian) **99b:26027**
Bhatia, Rajendra (*with* Šemrl, Peter) Orthogonality of matrices and some distance problems. (English summary) **99k:15042**
Borwein, David Simple conditions for matrices to be bounded operators on l_p. (English summary) **99b:47037**
Boyadzhiev, Khristo N. Norm estimates for commutators of operators. (English summary) **99k:47050**
Cross, Ronald ★ Multivalued linear operators. (English summary) **99j:47003**
Fujii, Jun Ichi The Ando-Bhatia-Kittaneh inequalities and their equality conditions. **99k:47038**
— (*with* Fujii, Masatoshi) Bhatia-Kittaneh's operator norm inequality. (English summary) **99j:47019**
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Jocić, Danko R. Norm inequality for the class of self-adjoint absolute value generalized derivations. (English summary) **99a:47053**
— Integral representation formula for generalized normal derivations. (English summary) **99j:47026**
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Kosaki, Hideki Arithmetic-geometric mean and related inequalities for operators. (English summary) **99g:47032**
Lafuerza Guillén, Bernardo (*with* Rodríguez Lallena, José Antonio; Sempi, Carlo) Probabilistic norms for linear operators. **99f:47096**
Lehner, Franz Free operators with operator coefficients. **99a:22009**
Little, G. (*with* Reade, J. B.) Estimates for the norm of the nth indefinite integral. **99g:47068**
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— (*with* Yamamoto, Takanori[2]) Fixed points of certain functions and norms of singular integrable operators. (Japanese) **99m:47058**
Petrov, N. G. On an estimate for the norm of an operator inverse to an integral operator. (Russian) (*see* **99m:00021**)
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Ramm, Alexander G. Inequalities for norms of some integral operators. (English summary) **99f:47064**
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Thorpe, B. The norm of powers of the indefinite integral operator on $(0, 1)$. (English summary) **99g:47069**
Toledo, Rodolfo On Hardy-norm of operators with property Δ. (English summary) **99f:42044**
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47A35 Ergodic theory [see also 28Dxx]

Asmar, Nakhlé H. (*with* Montgomery-Smith, Stephen J.) A transference theorem for ergodic H^1. **99b:47013**
Bartoszek, Wojciech (*with* Brown, Thomas John) On Frobenius-Perron operators which overlap supports. (*see* **99f:58002**)
Bermúdez, Teresa (*with* González, Manuel; Mbekhta, Mostafa) Local ergodic theorems. **99k:47018**
Braverman, Michael (*with* Rubshtein, Ben-Zion; Veksler, A. S.) Dominated ergodic theorems in rearrangement invariant spaces. (English summary) **99b:47014**
Brown, Thomas John *see* **Bartoszek, Wojciech**, (**99f:58002**)
Çömez, Doğan (*with* Ferrando, Sebastian) On the sequences that are good in the mean for positive L_p-contractions, $1 \le p < \infty$. **99i:47014**
— Moving averages of superadditive processes with respect to L_p-contractions, $1 < p < \infty$. (English summary) **99j:47012**
Emel'yanov, Èduard Yu. Banach lattices on which every power-bounded operator is mean ergodic. (English summary) **99k:47019**
Ferrando, Sebastian Upcrossing inequalities for powers of nonlinear operators and Chacon processes. (English summary) **99e:47015**
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Hasegawa, Shigeru (*with* Sato, Ryotaro) On a d-parameter ergodic theorem for continuous semigroups of operators satisfying norm conditions. (English summary) **99h:47014**
Horbacz, Katarzyna Randomly connected dynamical systems—asymptotic stability. (English summary) **99b:47015**
Jones, Roger L. (*with* Lin, Michael; Olsen, James) Weighted ergodic theorems along subsequences of density zero. (English summary) **99d:47008**
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Knill, Oliver On the dynamics of a general unitary operator. (English summary) **99f:47015**
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Lin, Michael The uniform zero-two law for positive operators in Banach lattices. (English summary) **99g:47015**
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Nagisa, Masaru (*with* Wada, Shuhei) An extension of the mean ergodic theorem. (English summary) **99e:47016**
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Sato, Ryotaro Vector valued differentiation theorems for multiparameter additive processes in L_p spaces. (English summary) **99m:47005**
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— On a vector-valued local ergodic theorem in L_∞. (English summary) **99m:47006**
— *see also* **Hasegawa, Shigeru, 99h:47014**
Shaw, Sen-Yen Abstract ergodic theorems. (English summary) **99d:47009**
Słomczyński, Wojciech Subadditive ergodic theorems in $C(X)$. (English summary) **99m:47008**
Socała, Jolanta Asymptotic behaviour of the iterates of nonnegative operators on a Banach lattice. (English summary) **99a:47017**
Szarek, Tomasz Markov operators acting on Polish spaces. (English summary) **99a:47018**
Tulyakov, S. V. An ergodic property of the space of functions with a unique invariant mean value. (Russian. Russian summary) **99b:47016**
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Ageev, O. N. On ergodic transforma.ions with homogeneous spectrum. (English summary) **99m:28034**
Asmar, Nakhlé H. (*with* Kelly, Brian P.) Distributional control for operators on vector-valued L^p-spaces. **99g:47060**
Assani, I. Corrections to: "A Wiener-Wintner property for the helical transform" [Ergodic Theory Dynam. Systems **12** (1992), no. 2, 185–194; MR 93h:28023]. **99b:28029**
Berdikulov, M. A. (*with* Zhuraev, I. M.) Normal positive functionals on spaces with an order unit. (Russian. English and Uzbek summaries) **99f:46027**
Bugiel, Piotr Distortion inequality for the Frobenius-Perron operator and some of its consequences in ergodic theory of Markov maps in $\mathbf{R}^d$. (English summary) **99b:28014**
De Sam Lazaro, José *see* **Lemańczyk, Mariusz, 99k:28022**
Fannes, Mark Using density matrices in classical dynamical systems. **99k:82010**
Fetter, Helga Spreading models and the ergodic theorem. (Spanish. Spanish summary) **99j:46019**
Gaposhkin, V. F. Spectral criteria for the existence of generalized ergodic transformations. (Russian. Russian summary) **99d:28034**
Gessinger, Andreas Connections between the approximation and ergodic behaviour of cosine operators and semigroups. (English summary) **99k:47091**
Glasner, Eli (*with* Weiss, Benjamin) Kazhdan's property T and the geometry of the collection of invariant measures. (English summary) **99f:28029**
Guenais, Mélanie Une majoration de la multiplicité spectrale d'opérateurs associés à des cocycles réguliers. (English summary) [Upper bound for the spectral multiplicity of operators associated with regular cocycles] **99i:28021**
Hensz-Chądzyńska, Ewa (*with* Jajte, Ryszard; Paszkiewicz, Adam) Almost sure convergence of projections in L_p-spaces. (English summary) **99c:28046**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean B.) Ergodic theorems and ergodic decomposition for Markov chains. (English summary) **99m:60104**
— (*with* Lasserre, Jean B.) Existence and uniqueness of fixed points for Markov operators and Markov processes. **99f:60119**
Jajte, Ryszard *see* **Hensz-Chądzyńska, Ewa; et al., 99c:28046**
Kelly, Brian P. *see* **Asmar, Nakhlé H., 99g:47060**
Krupa, G. Ergodic theorems for subadditive superstationary families of random sets with values in Banach spaces. (English summary) **99j:28015**
Lacey, Michael T. Bourgain's entropy criteria. **99c:28051**
— The return time theorem fails on infinite measure-preserving systems. (English and French summaries) **99d:28040**
Lasserre, Jean B. *see* **Hernández-Lerma, Onésimo, 99f:60119** *and* **99m:60104**
Lemańczyk, Mariusz (*with* De Sam Lazaro, José) Spectral analysis of certain compact factors for Gaussian dynamical systems. (English summary) **99k:28022**
Lin, Hong Cheng (*with* Liu, Lan Zhe) Weighted weak boundedness of ergodic maximal operators and convergence of ergodic average operators. (Chinese. English and Chinese summaries) **99i:28023**
Liu, Lan Zhe *see* **Lin, Hong Cheng, 99i:28023**
Meyer, Paul-André Le théorème ergodique de Chacón-Ornstein. [The Chacón-Ornstein ergodic theorem] (*see* **99f:00041**)
Muraz, Gilbert L. Almost periodicity and ergodicity. (English summary) **99k:43006**
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de la Rue, Thierry L'ergodicité induit un type spectral maximal équivalent à la mesure de Lebesgue. (English and French summaries) [Ergodicity induces a maximal spectral type that is equivalent to Lebesgue measure] **99e:28028**
Ryzhikov, V. V. Transformations having homogeneous spectra. (English summary) **99m:28038**
Sebe, Gabriela Ileana On general Lipschitzian kernels. (English summary) **99j:47046**
Wang, Sheng Wang Abel ergodic properties and spectral decomposition for locally integrable semigroups. (English summary) **99c:47062**
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47A40 Scattering theory [see also 34L25, 35P25, 81Uxx]

van Casteren, J. (*with* Demuth, Michael) Completeness of scattering systems with obstacles of finite capacity. (English summary) **99e:47017**
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Demuth, Michael Integral conditions for the asymptotic completeness of two-space scattering systems. (English summary) **99b:47017**
— *see also* **van Casteren, J., 99e:47017**
Kuzhel', S. A. On the form of a scattering matrix for ρ-perturbations of an abstract wave equation. (Ukrainian. English summary) **99k:47020**
Mokhtar-Kharroubi, Mustapha (*with* Chabi, Mohamed; Stefanov, Plamen) Scattering theory with two L^1 spaces: application to transport equations with obstacles. (English and French summaries) **99b:47018**
Stefanov, Plamen *see* **Mokhtar-Kharroubi, Mustapha; et al., 99b:47018**
Zielinski, Lech Asymptotic completeness for multiparticle dispersive charge transfer models. (English summary) **99k:47021**

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Albeverio, Sergio (*with* Kurasov, P.) Pseudo-differential operators with point interactions. (English summary) **99a:47075**
Antoniou, Ioannis (*with* Mel'nikov, Yu. B.[1]) Quantum scattering of resonances: poles of a continued S-matrix and poles of an extended resolvent. **99h:81222**
— (*with* Gadella, M.; Pronko, G. P.) Gamow vectors for degenerate scattering resonances. (English summary) **99b:81260**

Bachelot, Alain Diffusion classique et quantique par un trou noir en formation. [Classical and quantum scattering by a black hole under formation] **99c:83045**
Ben-Artzi, Matania (*with* Nemirovsky, Jonathan) Resolvent estimates for Schrödinger-type and Maxwell equations with applications. **99e:35160**
Boto, J. P. On maps of type (p_0, p_1). (English summary) **99j:47068**
Bruneau, Vincent (*with* Robert, Didier) Asymptotics of the scattering phase for the Dirac operator: high energy, semi-classical and non-relativistic limits. (English summary) **99m:35179**
Christiansen, T. Spectral asymptotics for compactly supported perturbations of the Laplacian on $\mathbf{R}^n$. **99j:35157**
Dereziński, Jan (*with* Gérard, Christian) ★ Scattering theory of classical and quantum N-particle systems. (English summary) **99d:81172**
— Asymptotic completeness in nonrelativistic quantum field theory. (English summary) **99f:81212**
Eisenberg, Eli (*with* Horwitz, Lawrence P.; Strauss, Y.) The Lax-Phillips semigroup of the unstable quantum system. (English summary) **99i:81131**
— *see also* **Horwitz, Lawrence P., 99a:81192**
Gadella, M. *see* **Antoniou, Ioannis; et al., 99b:81260**
Gérard, Christian Théorie de la diffusion pour un atome couplé à un champ quantique. [Scattering theory for an atom coupled to a quantum field] **99b:81258**
— (*with* Nier, Francis) The Mourre theory for analytically fibered operators. (English summary) **99b:47030**
— *see also* **Dereziński, Jan, 99d:81172**
Goto, Masataka Inverse scattering problem for Dirac operators with magnetic potentials at a fixed energy. (Japanese) (*see* **99a:00049**)
Graf, Gian Michele (*with* Schenker, Daniel) 2-magnon scattering in the Heisenberg model. (English and French summaries) **99a:82018**
Hidano, Kunio Nonlinear small data scattering for the wave equation in $\mathbf{R}^{4+1}$. **99b:35147**
Horwitz, Lawrence P. (*with* Eisenberg, Eli) Lax-Phillips theory and the unstable system in quantum mechanics. (English summary) **99a:81192**
— (*with* Strauss, Y.) Description of unstable systems in relativistic quantum mechanics in the Lax-Phillips theory. (English summary) **99k:81334**
— *see also* **Eisenberg, Eli; et al., 99i:81131**
Iftimovici, Andrei Hard-core scattering for N-body systems [MR 98k:81292]. (English summary)
Ito, Hiroshi T. An inverse scattering problem for Dirac equations with time-dependent electromagnetic potentials. (English summary) **99h:35228**
Jensen, Arne[2] Space-time scattering for the Schrödinger equation. (English summary) **99i:35121**
Kadowaki, Mitsuteru Low energy resolvent estimates for acoustic propagators in perturbed stratified media. **99j:47069**
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Mel'nikov, Yu. B.[1] *see* **Antoniou, Ioannis, 99h:81222**
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Nier, Francis Mourre theory for analytically fibered operators. **99i:47044**
— *see also* **Gérard, Christian, 99b:47030**
Petkov, Vesselin M. Sur la conjecture de Lax et Phillips pour un nombre fini d'obstacles strictement convexes. [On the Lax-Phillips conjecture for finitely many strictly convex obstacles] **99f:35155**
Pronko, G. P. *see* **Antoniou, Ioannis; et al., 99b:81260**
Pushnitskiĭ, A. B. A representation for the spectral shift function in the case of perturbations of fixed sign. (Russian. Russian summary) **99a:47021**
Riss, Uwe Volker Extension of the Hilbert space by J-unitary transformations. (English summary) **99e:47041**
Robert, Didier *see* **Bruneau, Vincent, 99m:35179**
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47A45 Canonical models for contractions and nonselfadjoint operators

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Bercovici, Hari (*with* Prunaru, Bebe) Quasiaffine transforms of polynomially bounded operators. (English summary) **99i:47015**
Cassier, G. (*with* Chalendar, I.; Chevreau, B.) New examples of contractions illustrating membership and non-membership in the classes $\mathbf{A}_{m,n}$. (English summary) **99k:47022**
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47A50 Equations and inequalities involving linear operators, with vector unknowns

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47A53 (Semi-) Fredholm operators; index theories [see also 58B10, 58G12]

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47A55 Perturbation theory

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— (*with* Dąbrowski, Ludwik; Kurasov, P.) Symmetries of Schrödinger operators with point interactions. (English summary) **99f:34121**
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— Contributions to the study of perturbations of Fredholm complexes. (Romanian. English and Romanian summaries) **99m:47010**
— Noncompactness measure invariance of the index. (English summary) **99d:47011**
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Benbernou, Mejdoub Spectral analysis of the acoustic propagator in a multistratified domain. (English summary) **99i:47085**
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47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)

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— (*with* Rovnyak, James) Loewner's theorem for kernels having a finite number of negative squares. (English summary) **99m:47013**
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Bakonyi, Mihály (*with* Nævdal, Geir) On the matrix completion method for multidimensional moment problems. (English summary) **99k:42020**
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47A58 Operator approximation theory

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Roch, Steffen (*with* Silbermann, Bernd) Index calculus for approximation methods and singular value decomposition. (English summary) **99g:47030**
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Zhan, Da Peng Isometric approximation problems from finite-dimensional normed spaces into $C(\Omega)$. (Chinese. English and Chinese summaries) **99a:47027**

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Antoulas, A. C. Approximation of linear operators in the 2-norm. (English summary) **99g:15033**
Badea, Cătălin (*with* Mbekhta, Mostafa) Compressions of resolvents and maximal radius of regularity. (English summary) **99j:47005**
Cherki, S. Remarque sur l'approximation positive contractante. (English summary) [Remark about positive contractive approximation] **99m:47025**
Goh, Say Song (*with* Lee, Seng Luan; Shen, Zuowei; Tang, Wai-Shing) Construction of Schauder decomposition on Banach spaces of periodic functions. (English summary) **99b:46033**
Ignatenko, M. V. (*with* Yanovich, L. A.) Application of the Hankel transform for constructing operator interpolation formulas. (Russian. English and Russian summaries) **99g:41001**
Lee, Seng Luan *see* **Goh, Say Song; et al., 99b:46033**
Mbekhta, Mostafa *see* **Badea, Cătălin, 99j:47005**
Radzievskiĭ, G. V. Direct and inverse theorems in problems of approximation by vectors of finite degree. (Russian. Russian summary) **99g:41034**
Richter, Christian Entropy, approximation quantities and the asymptotics of the modulus of continuity. (English summary) **99j:41051**
Shen, Zuowei *see* **Goh, Say Song; et al., 99b:46033**
Tang, Wai-Shing *see* **Goh, Say Song; et al., 99b:46033**
Wolff, Manfred P. H. On the approximation of operators and the convergence of the spectra of the approximants. (English summary) **99e:47006**
Yanovich, L. A. *see* **Ignatenko, M. V., 99g:41001**

47A60 Functional calculus

Albrecht, David (*with* Franks, Edwin; McIntosh, Alan G. R.) Holomorphic functional calculi and sums of commuting operators. (English summary) **99j:47018**
Albrecht, Ernst (*with* Ricker, Werner J.) On p-dependent local spectral properties of certain linear differential operators in $L^p(\mathbf{R}^N)$. (English summary) **99d:47018**
Bhatia, Rajendra (*with* Singh, Dinesh[1]; Sinha, Kalyan B.) Differentiation of operator functions and perturbation bounds. (English summary) **99c:47017**
Bu, Shangquan (*with* Guerre-Delabrière, Sylvie) Imaginary powers and interpolation spaces of unbounded operators. (English summary) **99c:47018**
Cao, Xiao Hong (*with* Wang, Yong Ge) Hypercyclic and supercyclic operators. (Chinese. English and Chinese summaries) **99m:47018**
Franks, Edwin (*with* McIntosh, Alan G. R.) Discrete quadratic estimates and holomorphic functional calculi in Banach spaces. (English summary) **99j:47017**
— *see also* **Albrecht, David; et al., 99j:47018**
Guerre-Delabrière, Sylvie *see* **Bu, Shangquan, 99c:47018**
Hansen, Frank Operator convex functions of several variables. (English summary) **99b:47022a**
— A correction to: "Operator convex functions of several variables". **99b:47022b**

Hasson, Maurice Expansion of analytic functions of an operator in series of Faber polynomials. (English summary) **99b:47023**
Jazar, Mustapha *see* **deLaubenfels, Ralph, 99k:47036**
Jefferies, Brian (*with* McIntosh, Alan G. R.) The Weyl calculus and Clifford analysis. (English summary) **99e:47022**
Lancien, Florence (*with* Lancien, Gilles; Le Merdy, Christian) A joint functional calculus for sectorial operators with commuting resolvents. (English summary) **99h:47025**
Lancien, Gilles (*with* Le Merdy, Christian) A generalized H^∞ functional calculus for operators on subspaces of L^p and application to maximal regularity. **99i:47029**
— *see also* **Lancien, Florence; et al., 99h:47025**
deLaubenfels, Ralph (*with* Lei, Yansong) Regularized functional calculi, semigroups, and cosine functions for pseudodifferential operators. (English summary) **99b:47024**
— (*with* Jazar, Mustapha) Functional calculi, regularized semigroups and integrated semigroups. (English summary) **99k:47036**
Lei, Yansong *see* **deLaubenfels, Ralph, 99b:47024**
Le Merdy, Christian *see* **Lancien, Florence; et al., 99h:47025** *and* **Lancien, Gilles, 99i:47029**
Martínez Carracedo, Celso (*with* Sanz Alix, Miguel A.) Spectral mapping theorem for fractional powers in locally convex spaces. **99g:47031**
McIntosh, Alan G. R. *see* **Jefferies, Brian, 99e:47022; Franks, Edwin, 99j:47017** *and* **Albrecht, David; et al., 99j:47018**
Ricker, Werner J. *see* **Albrecht, Ernst, 99d:47018**
Sanz Alix, Miguel A. *see* **Martínez Carracedo, Celso, 99g:47031**
Singh, Dinesh[1] *see* **Bhatia, Rajendra; et al., 99c:47017**
Sinha, Kalyan B. *see* **Bhatia, Rajendra; et al., 99c:47017**
Wang, Yong Ge *see* **Cao, Xiao Hong, 99m:47018**
Zolotarev, V. A. A functional model of the Lie algebra ISO(1, 1) of linear nonselfadjoint operators. (Russian. Russian summary) **99f:47021**

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Auscher, Pascal (*with* McIntosh, Alan G. R.; Nahmod, Andrea R.) The square root problem of Kato in one dimension, and first order elliptic systems. (English summary) **99e:47061**
— (*with* McIntosh, Alan G. R.; Tchamitchian, Philippe) Heat kernels of second order complex elliptic operators and applications. (English summary) **99e:47062**
Beltiţă, Daniel (*with* Şabac, Mihai) An asymptotic formula for the commutators. (English summary) **99b:47009**
Bercovici, Hari (*with* Prunaru, Bebe) Quasiaffine transforms of polynomially bounded operators. (English summary) **99i:47015**
Chō, Muneo (*with* Nagano, Yoshihiko) Spectral mapping theorems and Weyl spectra for hyponormal operators. (English summary) **99e:47026**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Spectral estimates for positive Rockland operators. (English summary) **99m:22004**
Fendler, Gero On dilations and transference for continuous one-parameter semigroups of positive contractions on $\mathcal{L}^p$-spaces. **99k:47101**
Kellay, Karim (*with* Zarrabi, Mohamed) Classes de fonctions non quasi-analytiques et existence de sous-espaces invariants. (English and French summaries) [Nonquasianalytic classes of functions and existence of invariant subspaces] **99k:47014**
deLaubenfels, Ralph Similarity to a contraction, for power-bounded operators with finite peripheral spectrum. (English summary) **99a:47001**
Le Merdy, Christian The similarity problem for bounded analytic semigroups on Hilbert space. (English summary) **99h:47048**
Liu, Shuiqiang Maximally holomorphic functions of a bounded linear operator. (English summary) **99h:47007**
McIntosh, Alan G. R. *see* **Auscher, Pascal; et al., 99e:47061** *and* **99e:47062**
Mirotin, A. R. The action of functions of the Schoenberg class $\mathcal{T}$ on the cone of dissipative elements of a Banach algebra. (Russian) **99c:46055**
— On the $\mathcal{T}$-calculus of generators of C_0-semigroups. (Russian. Russian summary) **99g:47097**
Müller, Detlef Horst Functional calculus on Lie groups and wave propagation. **99k:22015**
Nagano, Yoshihiko *see* **Chō, Muneo, 99e:47026**
Nahmod, Andrea R. *see* **Auscher, Pascal; et al., 99e:47061**
Octavio, Alfredo (*with* Petrovic, Srdjan) Joint spectrum and nonisometric functional calculus. (English summary) **99e:47011**
Okada, Susumu (*with* Ricker, Werner J.) Representation of complete Boolean algebras of projections as ranges of spectral measures. (English summary) **99e:47038a**
— (*with* Ricker, Werner J.) Corrections to: "Representation of complete Boolean algebras of projections as ranges of spectral measures". (English summary) **99e:47038b**
— (*with* Ricker, Werner J.) Boolean algebras of projections and ranges of spectral measures. **99c:47042**
Petrovic, Srdjan *see* **Octavio, Alfredo, 99e:47011**
Prunaru, Bebe *see* **Bercovici, Hari, 99i:47015**
Przeworska-Rolewicz, Danuta Power mappings in algebras with logarithms. (English summary) **99k:47005**
Ptak, Marek On the reflexivity of multigenerator algebras. **99m:47055**
Ricker, Werner J. *see* **Okada, Susumu, 99c:47042; 99e:47038a** *and* **99e:47038b**
Robinson, Derek W. *see* **ter Elst, A. F. M., 99m:22004**
Şabac, Mihai *see* **Beltiţă, Daniel, 99b:47009**
Schilling, René L. Subordination in the sense of Bochner and a related functional calculus. (English summary) **99e:47042**
Suljagić, Salih Operators in quaternionic Hilbert space. (English and Croatian summaries) **99g:47017**
Suzuki, Masuo Quantum analysis—non-commutative differential and integral calculi. (English summary) **99j:47107**
Tchamitchian, Philippe *see* **Auscher, Pascal; et al., 99e:47062**
Veselić, K. Estimating the operator exponential. (English summary) **99i:47071**
Yang, Youngoh On Weyl spectrum and a class of operators. (English summary) **99e:47008**
Zarrabi, Mohamed *see* **Kellay, Karim, 99k:47014**

47A62 Equations involving linear operators, with operator unknowns

Kuiper, C. R. (*with* Zwart, H. J.) Connections between the algebraic Riccati equation and the Hamiltonian for Riesz-spectral systems. (English summary) **99k:47037**
Zwart, H. J. *see* **Kuiper, C. R., 99k:47037**

Items with secondary classifications in 47A62

Fujii, Jun Ichi The Lyapunov equation and operator means. **99m:47019**
Gavrilyuk, Ivan P. (*with* Makarov, Vladimir L.) Exact and approximate solutions of some operator equations based on the Cayley transform. (English summary) **99g:65068**
Makarov, Vladimir L. *see* **Gavrilyuk, Ivan P., 99g:65068**
Schüler, Elena *see* **Vũ Quốc Phóng, 99h:34081**
Vũ Quốc Phóng (*with* Schüler, Elena) The operator equation $AX - XB = C$, admissibility, and asymptotic behavior of differential equations. (English summary) **99h:34081**

47A63 Operator inequalities, operator means, shorted operators, etc.

Ando, Tsuyoshi Subadditivity and superadditivity. (Japanese) (*see* **99f:47002**)
Fujii, Jun Ichi (*with* Furuta, Takayuki) An operator version of the Wilf-Diaz-Metcalf inequality. (English summary) **99d:47019**
— The Ando-Bhatia-Kittaneh inequalities and their equality conditions. **99k:47038**
— The Lyapunov equation and operator means. **99m:47019**
— (*with* Fujii, Masatoshi) Bhatia-Kittaneh's operator norm inequality. (English summary) **99j:47019**
Fujii, Masatoshi (*with* Jiang, Jian Fei; Kamei, Eizaburo; Tanahashi, Kôtarô) A characterization of chaotic order and a problem. (English summary) **99k:47039**
— (*with* Nakamoto, Ritsuo) Simultaneous extensions of Selberg inequality and Heinz-Kato-Furuta inequality. (English summary) **99m:47020**
— *see also* **Jiang, Jian Fei; et al., 99c:47019** *and* **Fujii, Jun Ichi, 99j:47019**
Furuta, Takayuki (*with* Yanagida, Masahiro) Generalized means and convexity of inversion for positive operators. **99b:47025**
— Operator inequalities associated with Hölder-McCarthy and Kantorovich inequalities. (English summary) **99k:47040**
— (*with* Yamazaki, Takeaki; Yanagida, Masahiro) Order preserving operator inequalities via Furuta inequality. (English summary) **99i:47030**
— (*with* Yamazaki, Takeaki; Yanagida, Masahiro) On a conjecture related to Furuta-type inequalities with negative powers. (English summary) **99j:47020**
— Simplified proof of an order preserving operator inequality. **99i:47031**
— *see also* **Fujii, Jun Ichi, 99d:47019; Yanagida, Masahiro; et al., 99g:47033** *and* **Yamazaki, Takeaki; et al., 99k:47043**
Jiang, Jian Fei (*with* Kamei, Eizaburo; Fujii, Masatoshi) Operator functions associated with the grand Furuta inequality. (English summary) **99c:47019**
— *see also* **Fujii, Masatoshi; et al., 99k:47039**
Kamei, Eizaburo Monotonicity of the Furuta inequality on its complementary domain. (Japanese) **99i:47032**
— *see also* **Jiang, Jian Fei; et al., 99c:47019** *and* **Fujii, Masatoshi; et al., 99k:47039**
Kosaki, Hideki Arithmetic-geometric mean and related inequalities for operators. (English summary) **99g:47032**
Lin, Chia-Shiang On Heinz-Kato type characterizations of the Furuta inequality. (English summary) **99j:47021**
— The Furuta inequality and an operator equation for linear operators. (English summary) **99m:47021**
Mond, B. (*with* Pečarić, Josip) On Schwarz's inequality in Hilbert space. (English summary) **99j:47022**
Nakamoto, Ritsuo *see* **Fujii, Masatoshi, 99m:47020**
Pečarić, Josip *see* **Mond, B., 99j:47022**
Singh Aujla, Jaspal A fixed point theorem and a norm inequality for operator means. (English summary) **99k:47041**
Tanahashi, Kôtarô (*with* Yamagami, Shigeru) Exponential ordering on bounded self-adjoint operators. (Japanese summary) **99k:47042**
— The Furuta inequality with negative powers. (English summary) **99i:47033**
— *see also* **Fujii, Masatoshi; et al., 99k:47039**
Tikhonov, O. E. On matrix-subadditive functions and a relevant trace inequality. (English summary) **99i:47034**
Yamagami, Shigeru *see* **Tanahashi, Kôtarô, 99k:47042**
Yamazaki, Takeaki (*with* Yanagida, Masahiro; Furuta, Takayuki) An extension of order preserving operator inequalities. (Japanese) **99k:47043**
— *see also* **Yanagida, Masahiro; et al., 99g:47033; Furuta, Takayuki; et al., 99i:47030** *and* **99j:47020**
Yanagida, Masahiro (*with* Yamazaki, Takeaki; Furuta, Takayuki) Generalized operator functions implying order preserving operator inequalities. (Japanese) **99g:47033**
— Some applications of Tanahashi's result on the best possibility of Furuta inequality. (English summary) **99m:47022**
— *see also* **Furuta, Takayuki, 99b:47025; 99i:47030; 99j:47020** *and* **Yamazaki, Takeaki; et al., 99k:47043**

Items with secondary classifications in 47A63

Aluthge, Ariyadasa (*with* Wang, Derming) An operator inequality which implies paranormality. (English summary) **99j:47029**
Ando, Tsuyoshi (*with* Hiai, Fumio) Hölder type inequalities for matrices. (English summary) **99b:15021**
Andruchow, Esteban (*with* Corach, Gustavo; Stojanoff, Demetrio) Löwner's theorem and the differential geometry of the space of positive operators. (English and Spanish summaries) **99i:46057**
Athavale, Ameer GKS decomposition and spherical dilations. (English summary) **99h:47004**
Corach, Gustavo *see* **Andruchow, Esteban; et al., 99i:46057**

Das, Kiran Chandra (*with* Das Gupta, Madhumita; Paul, K.) Structure of the antieigenvectors of a strictly accretive operator. (English summary) **99h:47040**
Das Gupta, Madhumita *see* **Das, Kiran Chandra; et al., 99h:47040**
Hansen, Frank Operator convex functions of several variables. (English summary) **99b:47022a**
— A correction to: "Operator convex functions of several variables". **99b:47022b**
Hiai, Fumio *see* **Ando, Tsuyoshi, 99b:15021**
Hou, Jin-Chuan A characterization of positive elementary operators. (English summary) **99g:47077**
Li, Shao Kuan 2×2 partial block matrices of operators that can be extended to invertible matrices. (Chinese. English and Chinese summaries) **99h:47024**
Lin, Chia-Shiang On Halmos' sharpening of Reid's inequality. (French summary) **99a:47015**
Paul, K. *see* **Das, Kiran Chandra; et al., 99h:47040**
Rakočević, Vladimir A note on S. Maeda's inequality. (English summary) **99g:47004**
Seo, Yuki Variance in noncommutative probability. (English summary) **99a:46115**
— Independence in noncommutative probability. (English summary) **99a:46116**
Stojanoff, Demetrio *see* **Andruchow, Esteban; et al., 99i:46057**
Wang, Derming *see* **Aluthge, Ariyadasa, 99j:47029**

47A65 Structure theory

Items with secondary classifications in 47A65

Cassier, G. (*with* Chalendar, I.; Chevreau, B.) New examples of contractions illustrating membership and non-membership in the classes $\mathbf{A}_{m,n}$. (English summary) **99k:47022**
Chalendar, I. (*with* Esterle, Jean) L^1-factorization for C_{00}-contractions with isometric functional calculus. (English summary) **99e:47056**
— *see also* **Cassier, G.; et al., 99k:47022**
Chevreau, B. *see* **Cassier, G.; et al., 99k:47022**
Choi, Kun Wook (*with* Jung, Il Bong; Kim, Bok Ja) Direct integrals of dual operator algebras with properties $(A_{m,n})$. (English summary) **99f:47058**
Esterle, Jean *see* **Chalendar, I., 99e:47056**
Jung, Il Bong *see* **Choi, Kun Wook; et al., 99f:47058**
Kérchy, László (*with* van Neerven, J. M. A. M.) Polynomially bounded operators whose spectrum on the unit circle has measure zero. (English summary) **99a:47007**
Kim, Bok Ja *see* **Choi, Kun Wook; et al., 99f:47058**
van Neerven, J. M. A. M. *see* **Kérchy, László, 99a:47007**

47A66 (Non)quasitriangular, (non)quasidiagonal operators

Items with secondary classifications in 47A66

Xia, Jingbo Diagonalization modulo norm ideals with Lipschitz estimates. (English summary) **99g:47037**

47A67 Representation theory

Items with secondary classifications in 47A67

Arov, Damir Z. (*with* Kaashoek, M. A.; Pik, D. R.) Optimal time-variant systems and factorization of operators. I. Minimal and optimal systems. (English summary) **99i:47017**
Faĭziev, V. A. Two-dimensional real triangular quasirepresentations of a free group. (Russian) **99d:22029**
Kaashoek, M. A. *see* **Arov, Damir Z.; et al., 99i:47017**
Mathieu, Martin Representation theorems for some classes of operators on C^*-algebras. (English summary) **99j:46065**
Pik, D. R. *see* **Arov, Damir Z.; et al., 99i:47017**
Ressel, P. (*with* Ricker, Werner J.) Semigroup representations, positive definite functions and abelian C^*-algebras. (English summary) **99a:47059**
Ricker, Werner J. *see* **Ressel, P., 99a:47059**
Żelazko, W. A density theorem for algebra representations on the space (s). (English summary) **99d:46069**

47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)

Abrahams, I. David On the non-commutative factorization of Wiener-Hopf kernels of Khrapkov type. (English summary) **99d:47020**
Bastos, M. A. (*with* Karlovich, Yu. I.; Spitkovsky, Ilya M.; Tishin, P. M.) On a new algorithm for almost periodic factorization. (English summary) **99g:47034**
— (*with* Karlovich, Yu. I.; dos Santos, A. F.; Tishin, P. M.) The corona theorem and the existence of canonical factorization of triangular AP-matrix functions. (English summary) **99f:47022a**
— (*with* Karlovich, Yu. I.; dos Santos, A. F.; Tishin, P. M.) The corona theorem and the canonical factorization of triangular AP matrix functions—effective criteria and explicit formulas. (English summary) **99f:47022b**
Câmara, M. C. (*with* dos Santos, A. F.) A nonlinear approach to generalized factorization of matrix functions. (English summary) **99g:47035**
Ephremidze, L. (*with* Janashia, G.; Lagvilava, E.) On the factorization of unitary matrix-functions. (English and Georgian summaries) **99j:47023**
Feldman, Israel[1] (*with* Markus, Alexander) On some properties of factorization indices. (English summary) **99f:47023**
Janashia, G. *see* **Ephremidze, L.; et al., 99j:47023**
Kaashoek, M. A. (*with* Pik, D. R.) Factorization of lower triangular unitary operators with finite Kronecker index into elementary factors. (English summary) **99i:47035**
Kamalyan, A. G. Formulas of Gohberg-Lerer-Rodman type for partial indices of a matrix function. (Russian. English and Russian summaries) **99f:47024**
Karlovich, Yu. I. *see* **Bastos, M. A.; et al., 99f:47022a; 99f:47022b** *and* **99g:47034**
Lagvilava, E. *see* **Ephremidze, L.; et al., 99j:47023**
Markus, Alexander *see* **Feldman, Israel[1], 99f:47023**
Pik, D. R. *see* **Kaashoek, M. A., 99i:47035**
Quint, Daniel (*with* Rodman, Leiba; Spitkovsky, Ilya M.) New cases of almost periodic factorization of triangular matrix functions. **99c:47020**
Rakowski, Marek Wiener-Hopf factorization of singular matrix functions. (English summary) **99g:47036**
Rodman, Leiba *see* **Quint, Daniel; et al., 99c:47020**
dos Santos, A. F. *see* **Bastos, M. A.; et al., 99f:47022a; 99f:47022b** *and* **Câmara, M. C., 99g:47035**
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Items with secondary classifications in 47A68

Anoussis, M. (*with* Katsoulis, E. G.) Factorisation in nest algebras. II. (English summary) **99c:47064**
Arabadzhyan, L. G. On a conservative integral equation with two kernels. (Russian. Russian summary) **99d:45003**
Aron, Richard M. (*with* Lindström, Mikael; Ruess, W. M.; Ryan, Raymond A.) Uniform factorization for compact sets of operators. (English summary) **99f:46025**
Engibaryan, B. N. Application of multiple factorization to a homogeneous convolution equation. (Russian. English and Russian summaries) **99h:45005**
Floret, Klaus Factorization of finite-rank operators in Banach operator ideals. (English summary) **99g:47110**
Kaashoek, M. A. (*with* van der Mee, C. V. M.; Ran, A. C. M.) Wiener-Hopf factorization of transfer functions of extended Pritchard-Salamon realizations. (English summary) **99k:47030**
Kaplitskiĭ, V. M. An integral equation on a segment with a difference matrix kernel. (Russian. Russian summary) **99m:45005**
Katsoulis, E. G. *see* **Anoussis, M., 99c:47064**
Lindström, Mikael *see* **Aron, Richard M.; et al., 99f:46025**
van der Mee, C. V. M. *see* **Kaashoek, M. A.; et al., 99k:47030**
Peller, Vladimir V. Factorization and approximation problems for matrix functions. (English summary) **99b:47036**
Quinn, Terrance Factorization in approximately polynormal C^*-algebras: products of positive operators. (English summary) **99g:46083**
Ran, A. C. M. *see* **Kaashoek, M. A.; et al., 99k:47030**
Ruess, W. M. *see* **Aron, Richard M.; et al., 99f:46025**
Ryan, Raymond A. *see* **Aron, Richard M.; et al., 99f:46025**
Sheshko, M. A. A direct method for solving a system of singular equations with a Cauchy kernel. (Russian. Russian summary) **99f:45019**
Toland, John Francis (*with* Williams, David) On the Schur test for L_2-boundedness of positive integral operators with a Wiener-Hopf example. (English summary) **99k:47123**
Williams, David *see* **Toland, John Francis, 99k:47123**

47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces

Cartier, Pierre Développements de fonctions arbitraires suivant les fonctions propres d'un opérateur différentiel. [Expansions of arbitrary functions in the eigenfunctions of a differential operator] (*see* **99f:00035**)
Dmitrishin, M. Ĭ. *see* **Lopushans'kiĭ, O. V.**
Frolov, N. N. *see* **Klevchikhin, Yu. A., 99j:47024**
Klevchikhin, Yu. A. (*with* Frolov, N. N.) Multipliers of Hermite expansions in the spaces L^p. (Russian. English and Russian summaries) **99j:47024**
Lopushans'kiĭ, O. V. (*with* Dmitrishin, M. Ĭ.) The basis property of systems of root vectors of operators with a compact resolvent. (Ukrainian. English summary)
Minkin, A. M. Necessity of the Muckenhoupt condition for the unconditional basis property of eigenfunctions. (Russian. Russian summary) **99i:47036**

Items with secondary classifications in 47A70

Berezanskiĭ, Yuriĭ Makarovich Direct and inverse spectral problems for a Jacobi field. (Russian. Russian summary) **99e:47029**
Castagnino, Mario A. Rigged Hilbert space, duality, and cosmology. **99j:83074**
— (*with* Diener, Roberto; Lara, Luis; Puccini, Gabriel) Rigged Hilbert spaces and time asymmetry: the case of the upside-down simple harmonic oscillator. (English summary) **99f:81043**
Diener, Roberto *see* **Castagnino, Mario A.; et al., 99f:81043**
Hassi, Seppo (*with* Kaltenbäck, Michael; de Snoo, Hendrik S. V.) Generalized Kreĭn-von Neumann extensions and associated operator models. (English summary) **99m:47026**
— (*with* de Snoo, Hendrik S. V.) Nevanlinna functions, perturbation formulas, and triplets of Hilbert spaces. (English summary) **99j:47014**
Horváth, Miklós Local uniform convergence of the Riesz means of Laplace and Dirac expansions. (English and French summaries) **99g:47113**
Ibrahim, S. F. M. Indefinite eigenvalue problem with eigenparameter in the two boundary conditions. (English summary) **99h:34120**
Kaltenbäck, Michael *see* **Hassi, Seppo; et al., 99m:47026**
Kreĭn, Mark Grigor'evich Compact linear operators on functional spaces with two norms. (English summary) **99f:47028**
Lara, Luis *see* **Castagnino, Mario A.; et al., 99f:81043**
Puccini, Gabriel *see* **Castagnino, Mario A.; et al., 99f:81043**
de Snoo, Hendrik S. V. *see* **Hassi, Seppo, 99j:47014** *and* **99m:47026**

47A75 Eigenvalue problems [see also 49Rxx]

Chatelain, Thierry (*with* Choulli, Mourad) Clarke generalized gradient for eigenvalues. (English summary) **99a:47028**
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— (*with* Kulkarni, Rekha P.; Limaye, Balmohan V.) Accelerated spectral approximation. (English summary) **99a:47026**

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— (*with* Karlovich, Yu. I.; dos Santos, A. F.; Tishin, P. M.) The corona theorem and the canonical factorization of triangular AP matrix functions—effective criteria and explicit formulas. (English summary) **99f:47022b**

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Cătinaş, Emil (*with* Păvăloiu, Ion) On the Chebyshev method for approximating the eigenvalues of linear operators. **99d:65172**

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47A80 Tensor products of operators [see also 46M05]

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Peris, Alfredo A note on tensor products of compact diagonal operators. (English summary) **99a:47030**

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47A99 None of the above, but in this section

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Gaishun, I. V. Linear discrete equations in F-spaces and their stability. (Russian. Russian summary) **99f:39021**

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Gupta, Chaitan P. (*with* Trofimchuk, Sergei I.) Existence of a solution of a three-point boundary value problem and the spectral radius of a related linear operator. **99d:34029**

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47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

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Dostanić, Milutin R. Spectral properties of the Cauchy operator and its product with Bergman's projection on a bounded domain. **99e:47065**
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— (*with* Dehghan, Y. N.) Compactness and nuclearity of weighted composition operators on uniform spaces. (English and Persian summaries) **99i:47060**
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Alpay, Daniel (*with* Bolotnikov, Vladimir) On two-sided interpolation for upper triangular Hilbert-Schmidt operators. (English summary) **99c:47010**
Bakonyi, Mihály (*with* Woerdeman, Hugo J.) Extensions of positive definite Fredholm operators with partially zero inverse. (English summary) **99h:47010**
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Haine, Luc Beyond the classical orthogonal polynomials. **99d:33008**
Hsu, Leetsch Charles (*with* Wang, Jun[1]) Some Möbius-type functions and inversions constructed via difference operators. (English summary) **99g:11010**
Ichihara, Kanji A Liouville property for difference operators. **99j:60114**
Jakšić, Vojkan (*with* Molchanov, Stanislav Alekseevich) On the spectrum of the surface Maryland model. (English summary) **99h:82046**
Jitomirskaya, Svetlana Ya. (*with* Last, Yoram) Anderson localization for the almost Mathieu equation. III. Semi-uniform localization, continuity of gaps, and measure of the spectrum. (English summary) **99j:81038**
Kalyagin, V. A. *see* **Aptekarev, A. I.**, **99h:41019**
Kirsch, Werner (*with* Stollmann, Peter; Stolz, Günter) Anderson localization for random Schrödinger operators with long range interactions. (English summary) **99e:82051**
Kiselev, Alexander (*with* Last, Yoram; Simon, Barry) Modified Prüfer and EFGP transforms and the spectral analysis of one-dimensional Schrödinger operators. (English summary) **99g:34167**
Klopp, Frédéric Band edge behavior of the integrated density of states of random Jacobi matrices in dimension 1. (English summary) **99d:82035**
Last, Yoram *see* **Kiselev, Alexander; et al.**, **99g:34167** *and* **Jitomirskaya, Svetlana Ya.**, **99j:81038**
Levstein, Fernando (*with* Matusevich, Laura Felicia) The discrete version of the bispectral problem. (English summary) **99f:39026**
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Molchanov, Stanislav Alekseevich *see* **Jakšić, Vojkan**, **99h:82046**
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Nguyễn Văn Minh *see* **Aulbach, Bernd; et al.**, **99m:39003**
Northshield, Sam Positive solutions of Schrödinger's equation on trees. (English summary) **99d:31003**
Novikov, Sergeĭ Petrovich (*with* Dynnikov, I. A.) Discrete spectral symmetries of small-dimensional differential operators and difference operators on regular lattices and two-dimensional manifolds. (Russian) **99e:35029**
— Algebraic properties of two-dimensional difference operators. (Russian) **99e:39078**
Sakhnovich, L. A. Spectral problems on the line for canonical systems of finite-difference equations. (Russian. English and Ukrainian summaries) **99i:39034**
Simon, Barry *see* **Kiselev, Alexander; et al.**, **99g:34167**
Stollmann, Peter *see* **Kirsch, Werner; et al.**, **99e:82051**
Stolz, Günter *see* **Kirsch, Werner; et al.**, **99e:82051**
Székelyhidi, László On common eigenfunctions of difference operators. (English summary) **99c:39023**
Teschl, Gerald Spectral deformations of Jacobi operators. (English summary) **99b:39025**
Villarroel, Javier On the solution to the inverse problem for the Toda chain. (English summary) **99h:35207**
Vlasov, Viktor Valentinovich On some spectral questions that arise in the theory of differential-difference equations. (Russian) **99m:34151**
Wang, Jun[1] *see* **Hsu, Leetsch Charles**, **99g:11010**
Yagle, Andrew E. Discrete Gel'fand-Levitan and Marchenko matrix equations and layer stripping algorithms for the discrete two-dimensional Schrödinger equation inverse scattering problem with a nonlocal potential. (English summary) **99e:39076**
Zabreĭko, Petr Petrovich *see* **Aulbach, Bernd; et al.**, **99m:39003**

47B40 Spectral operators, decomposable operators, well-bounded operators, etc.

Akhmedov, A. M. On generalised spectral operators. (English summary) **99f:47043**
Okada, Susumu (*with* Ricker, Werner J.) Representation of complete Boolean algebras of projections as ranges of spectral measures. (English summary) **99e:47038a**
— (*with* Ricker, Werner J.) Corrections to: "Representation of complete Boolean algebras of projections as ranges of spectral measures". (English summary) **99e:47038b**
— (*with* Ricker, Werner J.) Boolean algebras of projections and ranges of spectral measures. **99c:47042**
Rho, Jae Chul (*with* Yoo, Jong-Kwang) Super-decomposable operators. (English summary) **99g:47075**
Ricker, Werner J. *see* **Okada, Susumu**, **99c:47042**; **99e:47038a** *and* **99e:47038b**
Yoo, Jong-Kwang *see* **Rho, Jae Chul**, **99g:47075**

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Albrecht, Ernst (*with* Ricker, Werner J.) On p-dependent local spectral properties of certain linear differential operators in $L^p(\mathbf{R}^N)$. (English summary) **99d:47018**
Baskakov, A. G. ★ Гармонический анализ линейных операторов. (Russian. Russian summary) [Harmonic analysis of linear operators] **99g:47002**
Erdelyi, Ivan (*with* Wang, Sheng Wang) Elements of the local spectral theory for closed operators. **99g:47007**
Ko, Eungil A note on a finite triangular operator matrix. (English summary) **99g:47042**
Lin, Chen (*with* Yan, Zikun) Localization of Bishop's property (β). (English and Chinese summaries) **99h:47006**
Miller, Thomas Len (*with* Miller, V. G.) An operator satisfying Dunford's condition (C) but without Bishop's property (β). **99i:47007**
— (*with* Miller, V. G.; Smith, Robert C.) Bishop's property (β) and the Cesàro operator. (English summary) **99m:47002**
— (*with* Miller, V. G.) Local spectral theory and orbits of operators. (English summary) **99f:47007**
Miller, V. G. *see* **Miller, Thomas Len**, **99f:47007**; **99i:47007** *and* **99m:47002**
Neumann, Michael M. Growth conditions and Bishop's property (β). (English summary) **99g:47009**
Ricker, Werner J. *see* **Albrecht, Ernst**, **99d:47018**

Shubov, Marianna A. Spectral operators generated by damped hyperbolic equations. (English summary) **99a:47036**
Smith, Robert C. *see* **Miller, Thomas Len; et al., 99m:47002**
Wang, Sheng Wang Abel ergodic properties and spectral decomposition for locally integrable semigroups. (English summary) **99c:47062**
— *see also* **Erdelyi, Ivan, 99g:47007**
Yan, Zikun *see* **Lin, Chen, 99h:47006**

47B44 Accretive operators, dissipative operators, etc.

Arlinskiĭ, Yu. M. Closed sectorial forms and one-parameter contraction semigroups. (Russian. Russian summary) **99c:47043**
Borisov, V. V. (*with* Okazawa, Noboru) Holomorphic families of linear operators in Banach spaces. (English summary) **99b:47051**
Das, Kiran Chandra (*with* Das Gupta, Madhumita; Paul, K.) Structure of the antieigenvectors of a strictly accretive operator. (English summary) **99h:47040**
Das Gupta, Madhumita *see* **Das, Kiran Chandra; et al., 99h:47040**
Okazawa, Noboru *see* **Borisov, V. V., 99b:47051**
Paul, K. *see* **Das, Kiran Chandra; et al., 99h:47040**
Voicu, Mihai Dissipative operators and resolvents. **99h:47041**
— Dissipative and accretive operators on locally convex spaces. **99g:47076**

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Drissi, Driss On a generalization of Lumer-Phillips' theorem for dissipative operators in a Banach space. (English summary) **99c:47051**
Fendler, Gero On dilations and transference for continuous one-parameter semigroups of positive contractions on $\mathscr{L}^p$-spaces. **99k:47101**
Minkin, A. M. Necessity of the Muckenhoupt condition for the unconditional basis property of eigenfunctions. (Russian. Russian summary) **99i:47036**
Mirotin, A. R. The action of functions of the Schoenberg class $\mathscr{T}$ on the cone of dissipative elements of a Banach algebra. (Russian) **99c:46055**
Okazawa, Noboru Remarks on linear evolution equations of hyperbolic type in Hilbert space. (English summary) **99e:34081**
Phelps, R. R. (*with* Simons, Stephen) Unbounded linear monotone operators on nonreflexive Banach spaces. (English summary) **99k:47003**
Simons, Stephen *see* **Phelps, R. R., 99k:47003**

47B47 Commutators, derivations, elementary operators, etc.

Barraa, Mohamed (*with* Pedersen, Steen) On the product of two generalized derivations. (English summary) **99m:47041**
Bouali, S. (*with* Charles, Josette) Generalized derivation and numerical range. (English summary) **99i:47066**
Charles, Josette *see* **Bouali, S., 99i:47066**
Dykema, Kenneth J. (*with* Kalton, Nigel J.) Spectral characterization of sums of commutators. II. (English summary) **99g:47079**
Hou, Jin-Chuan A characterization of positive elementary operators. (English summary) **99g:47077**
— Multiplicative maps on $\mathscr{B}(X)$. (English summary) **99k:47073**
Jocić, Danko R. Norm inequality for the class of self-adjoint absolute value generalized derivations. (English summary) **99a:47053**
Kalton, Nigel J. Spectral characterization of sums of commutators. I. (English summary) **99g:47078**
— *see also* **Dykema, Kenneth J., 99g:47079**
Li, Jian Kui A remark on complete positivity of elementary operators. (English summary) **99b:47052**
— Complete positivity of elementary operators. (English summary) **99b:47053**
Mathieu, Martin Characterising completely positive elementary operators. (English summary) **99g:47080**
Mazouz, A. On the range and the kernel of the operator $X \mapsto AXB - X$. (English summary) **99j:47051**
Mecheri, Salah Derivation ranges. (English summary) **99g:47081**
Pedersen, Steen *see* **Barraa, Mohamed, 99m:47041**

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Alvarez, Josefina Continuity properties for linear commutators of Calderón-Zygmund operators. (English summary) **99h:42024**
Bhatia, Rajendra (*with* Kittaneh, Fuad; Li, Ren-Cang) Some inequalities for commutators and an application to spectral variation. II. (English summary) **99f:47014**
— (*with* Šemrl, Peter) Orthogonality of matrices and some distance problems. (English summary) **99k:15042**
Boyadzhiev, Khristo N. Norm estimates for commutators of operators. (English summary) **99k:47050**
Burnap, Charles (*with* Lambert, Alan) Controlling and supporting sets in operator algebras. (English summary) **99h:46103**
Creedon, T. Products of derivations. (English summary) **99e:16043**
Ding, Yong (*with* Yang, Da Chun; Zhou, Zusheng) Boundedness of sublinear operators and commutators on $L^{p,\omega}(\mathbf{R}^n)$. (English summary) **99k:42029**
Du, Hong Ke *see* **Zhang, Jian Hua, 99k:47108**
Fujii, Jun Ichi The Ando-Bhatia-Kittaneh inequalities and their equality conditions. **99k:47038**
Jocić, Danko R. Integral representation formula for generalized normal derivations. (English summary) **99j:47026**
Jung, Yong-Soo On left derivations and derivations of Banach algebras. (English summary) **99m:46118**
Katavolos, A. (*with* Stamatopoulos, C.) Commutators of quasinilpotents and invariant subspaces. (English summary) **99b:46070**
Kissin, Edward (*with* Shulman, Viktor S.) Differential Banach $*$-algebras of compact operators associated with symmetric operators. (English summary) **99h:47052**
— Derivations of C^*-algebras and representations on deficiency spaces of skew-symmetric operators. **99f:47045**
Kittaneh, Fuad *see* **Bhatia, Rajendra; et al., 99f:47014**
Lambert, Alan *see* **Burnap, Charles, 99h:46103**
Li, Ren-Cang *see* **Bhatia, Rajendra; et al., 99f:47014**
Ma, Ji Pu *see* **Xu, Ben Long, 99g:46096**
Manuĭlov, V. M. Invariant of a pair of almost commuting unbounded operators. (Russian) **99m:47030**
Mathieu, Martin Derivations implemented by local multipliers. (English summary) **99a:46122**
Passarelli Di Napoli, Antonia A local version of Rubio de Francia's extrapolation theorem. (English summary) **99f:46039**
Šemrl, Peter *see* **Bhatia, Rajendra, 99k:15042**
Shulman, Viktor S. *see* **Kissin, Edward, 99h:47052**
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Suzuki, Masuo Quantum analysis—non-commutative differential and integral calculi. (English summary) **99j:47107**
Turnšek, Aleksej On normal derivations and orthogonality. (Slovenian. English and Slovenian summaries)
Wang, Qin² Additive maps and elementary operators on $B(X)$ that preserve the point spectrum. (Chinese. English and Chinese summaries) **99m:47043**
Xiong, Chang Ping *see* **Zhu, Jun², 99j:47066**
Xu, Ben Long (*with* Ma, Ji Pu) A note on local derivations. (Chinese. English and Chinese summaries) **99g:46096**
Yang, Da Chun *see* **Ding, Yong; et al., 99k:42029**
Zhang, Jian Hua (*with* Du, Hong Ke) Derivations on nest subalgebras of von Neumann algebras. II. (Chinese. English and Chinese summaries) **99k:47108**
Zhou, Zusheng *see* **Ding, Yong; et al., 99k:42029**
Zhu, Jun² (*with* Xiong, Chang Ping) $\mathscr{U}$-preserving kernel into range maps of Jacobson radicals of nest algebras. (Chinese. English and Chinese summaries) **99j:47066**

47B48 Operators on Banach algebras

Brešar, Matej (*with* Šemrl, Peter) On locally linearly dependent operators and derivations. (English summary) **99e:47039**
Šemrl, Peter *see* **Brešar, Matej, 99e:47039**
Yoo, Jong-Kwang On the spectral properties of multipliers. (English summary) **99j:47052**

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Aiena, Pietro (*with* Laursen, Kjeld B.) On Riesz theory of multipliers in commutative Banach algebras. (English summary) **99g:46068**
Antonevich, Anatoliĭ B. (*with* Radyno, Ya. V.) On the theory of mnemonic functions and its applications. (Russian. English and Russian summaries) **99a:46070**
Aupetit, Bernard Sur les transformations qui conservent le spectre. (English summary) [Spectrum-preserving transformations] **99m:46114**
Brešar, Matej (*with* Šemrl, Peter) Linear preservers on $\mathscr{B}(X)$. **99c:47044**
Font, Juan J. Disjointness preserving mappings between Fourier algebras. **99g:43002**
Hatori, Osamu (*with* Izuchi, Keiji) Apostol algebras and decomposition in Douglas algebras. **99c:46058**
— On the greatest regular closed subalgebras and the Apostol algebras of L^p-multipliers whose Fourier transforms are continuous and vanish at infinity. (English summary) **99c:46059**
Hou, Jin-Chuan Multiplicative maps on $\mathscr{B}(X)$. (English summary) **99k:47073**
Izuchi, Keiji *see* **Hatori, Osamu, 99c:46058**
Laursen, Kjeld B. *see* **Aiena, Pietro, 99g:46068**
Marcoux, Laurent W. (*with* Sourour, Ahmed R.) Commutativity preserving linear maps and Lie automorphisms of triangular matrix algebras. (English summary) **99k:16072**
Mathieu, Martin Representation theorems for some classes of operators on C^*-algebras. (English summary) **99j:46065**
Radyno, Ya. V. *see* **Antonevich, Anatoliĭ B., 99a:46070**
Šemrl, Peter *see* **Brešar, Matej, 99c:47044**
Sourour, Ahmed R. *see* **Marcoux, Laurent W., 99k:16072**
Xiong, Chang Ping *see* **Zhu, Jun², 99j:47066**
Zhu, Jun² (*with* Xiong, Chang Ping) $\mathscr{U}$-preserving kernel into range maps of Jacobson radicals of nest algebras. (Chinese. English and Chinese summaries) **99j:47066**

47B49 Transformers (= operators on spaces of operators)

Brešar, Matej (*with* Šemrl, Peter) Linear preservers on $\mathscr{B}(X)$. **99c:47044**
Hadwin, Donald W. (*with* Larson, David R.) Strong limits of similarities. (English summary) **99e:47040**
Karayannakis, Dimitri (*with* Lambrou, Michael S.; Magiropoulos, Manolis) Spectral decompositions of isometries on c_p. (English summary) **99i:47067**
Lambrou, Michael S. *see* **Karayannakis, Dimitri; et al., 99i:47067**
Larson, David R. *see* **Hadwin, Donald W., 99e:47040**
Magiropoulos, Manolis *see* **Karayannakis, Dimitri; et al., 99i:47067**
Molnár, Lajos (*with* Šemrl, Peter) Order isomorphisms and triple isomorphisms of operator ideals and their reflexivity. (English summary) **99a:47054**
— Characterization of additive $*$-homomorphisms and Jordan $*$-homomorphisms on operator ideals. (English summary) **99m:47042**
Šemrl, Peter *see* **Molnár, Lajos, 99a:47054** *and* **Brešar, Matej, 99c:47044**
Wang, Qin² Additive maps and elementary operators on $B(X)$ that preserve the point spectrum. (Chinese. English and Chinese summaries) **99m:47043**

Items with secondary classifications in 47B49

Fidaleo, F. Some operator ideals in non-commutative functional analysis. (English summary) **99i:46041**
Jafarian, Ali A. (*with* Rodman, Leiba; Šemrl, Peter) Linear maps preserving the isomorphism class of lattices of invariant subspaces. (English summary) **99e:47012**
Magajna, Bojan Factorization of certain completely bounded mappings. **99k:46100**

Mascioni, Vania (*with* Molnár, Lajos) Linear maps on factors which preserve the extreme points of the unit ball. (English summary) **99m:46145**
Molnár, Lajos *see* **Mascioni, Vania, 99m:46145**
Rodman, Leiba *see* **Jafarian, Ali A.; et al., 99e:47012**
Šemrl, Peter *see* **Jafarian, Ali A.; et al., 99e:47012**

47B50 Operators on spaces with an indefinite metric

Azizov, T. Ya. (*with* Dijksma, Aad) Contractive linear relations in Pontryagin spaces. (English summary) **99h:47042**
Bayasgalan, Ts. On strongly stable normal operators in Krein spaces. (English summary) **99b:47054**
Chilin, V. I. *see* **Masharipova, S. Sh., 99h:47044**
Ćurgus, B. (*with* Najman, B.) Examples of positive operators in Krein space with 0 a regular critical point of infinite rank. (English summary) **99f:47044**
Dijksma, Aad *see* **Azizov, T. Ya., 99h:47042**
Fleige, Andreas (*with* Najman, B.) Nonsingularity of critical points of some differential and difference operators. (English summary) **99g:47082**
— Non-semibounded sesquilinear forms and left-indefinite Sturm-Liouville problems. (English summary) **99k:47074**
Kaltenbäck, Michael (*with* Woracek, Harald) The Krein formula for generalized resolvents in degenerated inner product spaces. (English summary) **99m:47044**
Langer, Heinz (*with* Woracek, Harald) Resolvents of symmetric operators and the degenerated Nevanlinna-Pick problem. (English summary) **99h:47043**
Masharipova, S. Sh. (*with* Chilin, V. I.) Functional description of commutative symmetric operator algebras in a Pontryagin space of type Π_1. (Russian. English and Uzbek summaries) **99h:47044**
Najman, B. *see* **Ćurgus, B., 99f:47044** *and* **Fleige, Andreas, 99g:47082**
Riss, Uwe Volker Extension of the Hilbert space by J-unitary transformations. (English summary) **99e:47041**
Shulman, Viktor S. Quasivectors and Tomita-Takesaki theory for operator algebras on Π_1-spaces. (English summary) **99b:47055**
Sukhochëva, L. I. A new criterion for an operator to belong to the class $K(H)$. (Russian) **99c:47045**
Temme, Dirk The point spectrum of unitary dilations in Kreĭn spaces. (English summary) **99k:47075**
Woracek, Harald *see* **Langer, Heinz, 99h:47043** *and* **Kaltenbäck, Michael, 99m:47044**
Yang, Mee Hyea Julia operators and linear systems. (English summary) **99g:47083**

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Alpay, Daniel (*with* Dijksma, Aad; Rovnyak, James; de Snoo, Hendrik S. V.) Reproducing kernel Pontryagin spaces. (English summary) **99g:46028**
— (*with* Rovnyak, James) Loewner's theorem for kernels having a finite number of negative squares. (English summary) **99m:47013**
Azizov, T. Ya. (*with* Barsukov, A. I.) Algebraic structure of H-dissipative operators in a finite-dimensional space. (Russian. Russian summary) **99e:15029**
Ball, Joseph A. (*with* Karlovich, Yu. I.; Rodman, Leiba; Spitkovsky, Ilya M.) Sarason interpolation and Toeplitz corona theorem for almost periodic matrix functions. (English summary) **99k:47033**
Barsukov, A. I. *see* **Azizov, T. Ya., 99e:15029**
Ben-Artzi, Asher (*with* Gohberg, Israel) Singular numbers of contractions in spaces with an indefinite metric and Yamamoto's theorem. (English summary) **99m:15029**
Constantinescu, Tiberiu (*with* Gheondea, Aurelian) Representations of Hermitian kernels by means of Kreĭn spaces. (English summary) **99c:47013**
— (*with* Gheondea, Aurelian) On the Carathéodory type problem of M. G. Kreĭn and H. Langer. (English and French summaries) **99i:47025**
Dijksma, Aad *see* **Alpay, Daniel; et al., 99g:46028**
Gheondea, Aurelian (*with* Ober, Raimund J.) Spectral minimality of J-positive linear systems of finite order. (English summary) **99f:93026**
— On generalized interpolation and shift invariant maximal semidefinite subspaces. (English summary) **99g:47028**
— *see also* **Constantinescu, Tiberiu, 99c:47013** *and* **99i:47025**
Gohberg, Israel *see* **Ben-Artzi, Asher, 99m:15029**
Ibrahim, S. F. M. Indefinite eigenvalue problem with eigenparameter in the two boundary conditions. (English summary) **99h:34120**
Jiang, Zhi Min Selfadjoint extensions of Volterra Stieltjes integrodifferential operators. (English summary) **99g:47119**
Jonas, Peter On the trace formula of perturbation theory. II. (English summary) **99k:47028**
Karlovich, Yu. I. *see* **Ball, Joseph A.; et al., 99k:47033**
Kissin, Edward (*with* Shulman, Viktor S.) ★ Representations on Krein spaces and derivations of C^*-algebras. (English summary) **99d:46091**
— Derivations of C^*-algebras and representations on deficiency spaces of skew-symmetric operators. **99f:47045**
Li, Chi-Kwong (*with* Rodman, Leiba) Shapes and computer generation of numerical ranges of Krein space operators. (English summary) **99c:15048**
Mnatsakanova, M. N. (*with* Morchio, Gianni; Strocchi, Franco; Vernov, Yu. S.) Irreducible representations of the Heisenberg algebra in Krein spaces. (English summary) **99j:81080**
— *see also* **Vernov, Yu. S., 99f:81102**
Morchio, Gianni *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Ober, Raimund J. *see* **Gheondea, Aurelian, 99f:93026**
Rodman, Leiba *see* **Li, Chi-Kwong, 99c:15048** *and* **Ball, Joseph A.; et al., 99k:47033**
Rovnyak, James *see* **Alpay, Daniel; et al., 99g:46028** *and* **99m:47013**
Russakovskiĭ, E. M. The matrix Sturm-Liouville problem with a spectral parameter in the boundary conditions. Algebraic and operator aspects. (Russian) **99b:34054**
Shtraus, V. A. On an estimate of the eigenvalues for an infinite-dimensional matrix and its application to the problem of the completeness of an eigenvector system of a completely continuous operator. (English summary) **99a:47008**
Shulman, Viktor S. *see* **Kissin, Edward, 99d:46091**
Shvartsman, Polina Arnol'dovna On the localization of spectra for the sum and product of matrices of certain classes. (Russian. Russian summary) **99d:15007**
de Snoo, Hendrik S. V. *see* **Alpay, Daniel; et al., 99g:46028**
Spitkovsky, Ilya M. *see* **Ball, Joseph A.; et al., 99k:47033**
Strocchi, Franco *see* **Mnatsakanova, M. N.; et al., 99j:81080**
Sukhochëva, L. I. On some spectral properties of a quadratic selfadjoint matrix pencil with dominating main diagonals. (Russian. Russian summary) **99d:15010**
Vernov, Yu. S. (*with* Mnatsakanova, M. N.) Properties of the algebra of q-deformed commutators in a space with an indefinite metric. (Russian. English and Russian summaries) **99f:81102**
— *see also* **Mnatsakanova, M. N.; et al., 99j:81080**
Wang, Jing Yu *see* **Yang, Hai Tao; et al.**
Wang, Shu Zhong *see* **Yang, Hai Tao; et al.**
Yang, Hai Tao (*with* Wang, Jing Yu; Wang, Shu Zhong) Measurable operator fields of π spaces. (Chinese. English and Chinese summaries)

47B60 Operators on ordered spaces

Abramovich, Yuri A. (*with* Wickstead, A. W.) When each continuous operator is regular. II. **99c:47046**
— (*with* Aliprantis, Charalambos D.; Burkinshaw, Owen) Multiplication and compact-friendly operators. (English summary) **99k:47076**
Aliprantis, Charalambos D. *see* **Abramovich, Yuri A.; et al., 99k:47076**
Burkinshaw, Owen *see* **Abramovich, Yuri A.; et al., 99k:47076**
Dăneț, Rodica-Mihaela ★ Tehnici existențiale și de prelungire pentru operatori liniari. (Romanian) [Techniques for the existence and extension of linear operators] **99g:47084**
Gavrilă, M. Convex operators on σ-lattice linear spaces. (Romanian. French and Romanian summaries)
Herzog, Gerd One-sided estimates for linear quasimonotone increasing operators. (English summary) **99k:47077**
Mosyagin, V. V. On the theory of operators in locally convex spaces with a cone. (Russian. Russian summary)
Radnaev, V. A. On n-disjoint operators. (English summary) **99k:47078**
Scheffold, Egon Über symmetrische Operatoren auf Banachverbänden und Arens-Regularität. [On symmetric operators on Banach lattices and Arens regularity] **99i:47068**
Tsekrekos, P. C. A note on compressible ordered normed spaces. (English summary) **99c:47047**
Wickstead, A. W. *see* **Abramovich, Yuri A., 99c:47046**

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Berdikulov, M. A. (*with* Zhuraev, I. M.) Normal positive functionals on spaces with an order unit. (Russian. English and Uzbek summaries) **99f:46027**
Bernau, S. J. (*with* Huijsmans, C. B.) The Schwarz inequality in Archimedean f-algebras. (English summary) **99e:46062**
Bonner, Richard F. Randomisation of positive linear learning algorithms in Banach function lattices. (English summary) (*see* **99f:68008**)
Buskes, Gerard (*with* Summerville, Jamie) On the biadjoint of Riesz-like homomorphisms on partially ordered vector spaces. (English summary) **99a:46008**
Emel'yanov, Éduard Yu. Banach lattices on which every power-bounded operator is mean ergodic. (English summary) **99k:47019**
Emmanuele, G. (*with* Rao, T. S. S. R. K.) Spaces of Bochner integrable functions and spaces of representable operators as $\mathfrak{U}$-ideals. **99a:46066**
Feldman, William Nonlinear Carleman operators on Banach lattices. (English summary) **99j:47104**
Font, Juan J. Disjointness preserving mappings between Fourier algebras. **99g:43002**
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Kawasaki, Toshiharu Order Lebesgue integration in vector lattices. (English summary) **99g:46057**
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Ribits'ka, O. M. On the positive J-fraction solutions of the linear functional equations. **99a:47019**
Schreiner, Walter J. Matrix regular operator spaces. (English summary) **99d:46025**
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Zhukova, O. I. On modified classes of p-nuclear, p-summable and p-integrable operators. (Russian. Russian summary) **99k:47048**
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47B65 Positive operators and order-bounded operators

Fernández Muñiz, José L. (*with* Guzmán Ovando, Maria E.) Riesz lattices and quasipositive operators. (Spanish. Spanish summary) (*see* **99i:00016**)
Förster, K.-H. (*with* Nagy, Béla) On nonnegative operators and fully cyclic peripheral spectrum. (English summary) **99h:47045**
Grobler, J. J. (*with* Huijsmans, C. B.) Disjointness preserving operators on complex Riesz spaces. (English summary) **99k:47079**
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Huijsmans, C. B. *see* **Grobler, J. J., 99k:47079**
Kolesnikov, E. V. Diffusion and atomic components of a positive operator. (Russian. Russian summary) **99g:47085**
Nagy, Béla *see* **Förster, K.-H., 99h:47045**
Zhang, Xiao Dong[3] On extensions of compact positive operators on Banach lattices. (English summary) **99c:47048**

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Abramovich, Yuri A. (*with* Aliprantis, Charalambos D.; Burkinshaw, Owen) Multiplication

and compact-friendly operators. (English summary) **99k:47076**
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Altomare, Francesco (*with* Raşa, Ion) Towards a characterization of a class of differential operators associated with positive projections. (English summary) **99h:35072**
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Engel, Klaus-J. Positivity and stability for one-sided coupled operator matrices. (English summary) **99k:47087**
Ferrando, Sebastian *see* **Çömez, Doğan, 99i:47014**
Grobler, J. J. Positive solutions of linear equations. (English summary) **99h:47017**
Lin, Michael The uniform zero-two law for positive operators in Banach lattices. (English summary) **99g:47015**
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Scheffold, Egon Über symmetrische Operatoren auf Banachverbänden und Arens-Regularität. [On symmetric operators on Banach lattices and Arens regularity] **99i:47068**
Socała, Jolanta Asymptotic behaviour of the iterates of nonnegative operators on a Banach lattice. (English summary) **99a:47017**
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Toland, John Francis (*with* Williams, David) On the Schur test for L_2-boundedness of positive integral operators with a Wiener-Hopf example. (English summary) **99k:47123**
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47B80 Random operators [see also 60H25]

Luo, Qun Spectral family representation of a class of operators on complex random inner product modules. (Chinese. English and Chinese summaries) **99d:47031**
Velasco, Maria Victoria (*with* Villena Muñoz, Armando R.) On the continuity of random operators. (English summary) **99a:47055**
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Fischer, Werner (*with* Hupfer, Thomas; Leschke, Hajo; Müller, Peter[1]) Existence of the density of states for multi-dimensional continuum Schrödinger operators with Gaussian random potentials. (English summary) **99b:82049**
Gärtner, J. (*with* Molchanov, Stanislav Alekseevich) Parabolic problems for the Anderson model. II. Second-order asymptotics and structure of high peaks. (English summary) **99f:82059**
Germinet, François (*with* de Bièvre, Stephan) Localisation dynamique et opérateurs de Schrödinger aléatoires. (English and French summaries) [Dynamical localization for random Schrödinger operators] **99j:82047**
— (*with* de Bièvre, Stephan) Dynamical localization for discrete and continuous random Schrödinger operators. (English summary) **99d:82033**
Grinshpun, V. Z. Exponential localization for an infinite-order finite-difference operator with random potential. (Russian. English, Russian and Ukrainian summaries) **99f:47040**
Hupfer, Thomas *see* **Fischer, Werner; et al., 99b:82049**
Kirsch, Werner (*with* Stollmann, Peter; Stolz, Günter) Anderson localization for random Schrödinger operators with long range interactions. (English summary) **99e:82051**
— (*with* Stollmann, Peter; Stolz, Günter) Localization for random perturbations of periodic Schrödinger operators. (English summary) **99c:82038**
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Klopp, Frédéric Band edge behavior of the integrated density of states of random Jacobi matrices in dimension 1. (English summary) **99d:82035**
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Molchanov, Stanislav Alekseevich Multiscattering on sparse bumps. **99b:82055**
— *see also* **Gärtner, J., 99f:82059**
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47B99 None of the above, but in this section

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Kaltenbäck, Michael Model spaces for compositions of Q-functions. (English summary) **99k:47081**
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Pearcy, Carl M. *see* **Ionascu, Eugen J.; et al., 99g:47086**
Stochel, Jerzy B. Representation of generalised creation and annihilation operators in Fock space. **99a:47056**

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Agranovich, Yu. Ya. The theory of operators with dominant main diagonal. I. (English summary) **99i:15008**
Bakonyi, Mihály (*with* Nævdal, Geir) Characterization of finite subsets of $\mathbf{Z}^2$ having the extension property. (English and French summaries) **99h:47022**
Berezanskiĭ, Yuriĭ Makarovich (*with* Kalyuzhnyi, A. A.) ★ Harmonic analysis in hypercomplex systems. (English summary) **99d:43010**
Bès, Juan P. Invariant manifolds of hypercyclic vectors for the real scalar case. (English summary) **99i:47002**
Bonet, José (*with* Peris, Alfredo) Hypercyclic operators on non-normable Fréchet spaces. (English summary) **99k:47044**
Cao, Xiao Hong (*with* Wang, Yong Ge) Hypercyclic and supercyclic operators. (Chinese. English and Chinese summaries) **99m:47018**
Chalmers, Bruce L. (*with* Prophet, M. P.) The existence of shape-preserving operators with a given action. (English summary) **99j:41031**
Chen, Mu Fa (*with* Wang, Feng Yu) A general symmetric form of Cheeger's inequality and a criterion for the existence of spectral gaps. (Chinese. Chinese summary)
Dudko, L. L. *see* **Sviridyuk, G. A.; et al., 99a:47029**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Spectral estimates for positive Rockland operators. (English summary) **99m:22004**
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Sõrmus, Tamara Some properties of generalized summability methods in Banach spaces. (English summary) **99c:40011**
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Sviridyuk, G. A. (*with* Sukachëva, T. G.; Dudko, L. L.) Relative σ-boundedness of linear operators. (Russian) **99a:47029**
Thomas, E. G. F. Vector-valued integration with applications to the operator-valued H^∞ space. (English summary) **99d:28016**
Vogel, Thomas I. Sufficient conditions for multiply constrained extrema. (English summary) **99c:49025**
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Wang, Yong Ge *see* **Cao, Xiao Hong, 99m:47018**
Xia, Jingbo Diagonalization modulo norm ideals with Lipschitz estimates. (English summary) **99g:47037**
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47Cxx Individual linear operators as elements of algebraic systems

47C05 Operators in algebras

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Azoff, Edward A. (*with* Ding, Lifeng) A good side to non-reflexive transformations. (English summary) **99h:47050**
Chen, Xiang Yang (*with* Lu, Shi Jie) Commutants of Volterra operators. (Chinese. English and Chinese summaries) **99g:47106**
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47C15 Operators in C^*- or von Neumann algebras

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Hagenbach, U. (*with* Upmeier, Harald) Toeplitz C^*-algebras over non-convex cones and pseudo-symmetric spaces. **99h:47033**
Müller, Vladimír (*with* Zajac, Michal) A quasi-nilpotent operator with reflexive commutant. II. (English summary) **99k:47015**
Popovici, Dan Orthogonal decompositions of isometries in Hilbert C^*-modules. (English summary) **99b:46087**

Quinn, Terrance Factorization in approximately polynormal C^*-algebras: products of positive operators. (English summary) **99g:46083**
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47Dxx Algebraic systems of linear operators [see also 46Lxx]

47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20.}

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Huang, Zhenyou (*with* Wang, Hai Yan[1]) The integrated C-semigroup and its spectral mapping theorem. (English and Chinese summaries) **99c:47049**
Jafari, F. (*with* Tonev, T.; Toneva, E.; Yale, K.) Holomorphic flows, cocycles, and coboundaries. **99c:47050**
MacDonald, Gordon Wilson Expanding a band. (English summary) **99m:47045**
Mangino, Elisabetta M. Some remarks on semigroup theory in locally convex spaces. **99k:47082**
Molnár, Lajos The automorphism and isometry groups of $l_\infty(\mathbf{N}, \mathcal{B}(\mathcal{H}))$ are topologically reflexive. (English summary) **99k:47083**
van Neerven, J. M. A. M. Elementary operator-theoretic proof of Wiener's Tauberian theorem. (English summary) **99a:47058**
Ressel, P. (*with* Ricker, Werner J.) Semigroup representations, positive definite functions and abelian C^*-algebras. (English summary) **99a:47059**
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Antonevich, Anatoliĭ B. (*with* Lebedev, Andrei) On the index of operators in algebras associated with automorphisms. (Russian. English and Russian summaries) **99k:47026**
Arveson, William Dynamical invariants for noncommutative flows. **99a:46117**
Asmar, Nakhlé H. (*with* Kelly, Brian P.) Distributional control for operators on vector-valued L^p-spaces. **99g:47060**
Assadi, Amanollah (*with* Niknam, A.) On semigroups of linear operators. (English summary) (*see* **99a:00041**)
Balasubramaniam, P. (*with* Chandrasekaran, M.) Existence of solutions of nonlinear integrodifferential equation with nonlocal boundary conditions in Banach space. (English summary) **99f:34115**
Basit, Bolis (*with* Pryde, A. J.) Strong continuity of semigroup homomorphisms. (English summary) **99m:22003**
Borisov, V. V. (*with* Okazawa, Noboru) Holomorphic families of linear operators in Banach spaces. (English summary) **99b:47051**
Cartier, Pierre Vecteurs analytiques (d'après E. Nelson). [Analytic vectors (after E. Nelson)] (*see* **99f:00037**)
— Analyse spectrale et théorème de prédiction statistique de Wiener. [Spectral analysis and Wiener's statistical prediction theorem] (*see* **99f:00038**)
Catepillán, Ximena (*with* Szymański, Wacław) Semigroup properties of factors in the polar decomposition or the operator De-Moivre formula. (English summary) **99e:47024**
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Coşkun, Erdal Differentiable functions and the generators on a Hilbert-Lie group. (English summary) **99j:60007**
Danilenko, A. I. Gårding domains for unitary representations of countable inductive limits of locally compact groups. (English, Russian and Ukrainian summaries) **99c:22004**
Forzani, Liliana (*with* Scotto, Roberto) The higher order Riesz transform for Gaussian measure need not be of weak type (1, 1). (English summary) **99h:42034**
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Jahandideh, M. T. On the ideal-triangularizability of semigroups of quasinilpotent positive operators on $C(\mathcal{X})$. (English summary) **99j:47043**
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Klimek, Sławomir (*with* Leśniewski, Andrzej) Ergodic theorems for quantum Kronecker flows. (English summary) **99b:11090**
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Livshits, Leonya (*with* MacDonald, Gordon Wilson; Mathes, D. Benjamin; Radjavi, Heydar) Reducible semigroups of idempotent operators. (English summary) **99m:47004**
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Megrelishvili, Michael G. Fragmentability and continuity of semigroup actions. (English summary) **99c:54053**
Monte, Roberto A quantum extension of transient Bessel processes. (English summary) **99b:46118**
Nagisa, Masaru (*with* Wada, Shuhei) An extension of the mean ergodic theorem. (English summary) **99e:47016**
Neeb, Karl-Hermann (*with* Ørsted, Bent) Unitary highest weight representations in Hilbert spaces of holomorphic functions on infinite-dimensional domains. (English summary) **99m:22022**
— Holomorphic highest weight representations of infinite-dimensional complex classical groups. **99h:22027**
van Neerven, J. M. A. M. Nonsymmetric Ornstein-Uhlenbeck semigroups in Banach spaces. (English summary) **99h:60083**
— *see also* **Kérchy, László, 99a:47007**
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Pallu de la Barrière, Robert L'existence de sous-espaces stables, d'après Wermer. [Existence of stable subspaces, after Wermer] (*see* **99f:00034**)
Powers, Robert T. Recent results concerning E_0-semigroups of $\mathfrak{B}(\mathfrak{h})$. **99b:46104**
Pryde, A. J. *see* **Basit, Bolis, 99m:22003**
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Singh, Bhopinder (*with* Kour, Kamaljeet) Dynamical systems on weighted spaces of continuous functions. (English summary) **99d:47030**
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Uspenskii, Vladimir V. The Roelcke compactification of unitary groups. (English summary) **99i:22003**
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Ai, Wen Bao *see* **Peng, Ji Gen, 99c:47057**
Alboth, Dirk Individual asymptotics of C_0-semigroups: lower bounds and small solutions. **99a:47060**
Ammar-Khodja, Farid (*with* Mokhtar-Kharroubi, Mustapha) On the exponential stability of advection semigroups with boundary operators. (English summary) **99b:47057**
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Barbu, Viorel (*with* Favini, Angelo) The analytic semigroup generated by a second order degenerate differential operator in $C[0, 1]$. **99i:47069**
Bobrowski, Adam On the Yosida approximation and the Widder-Arendt representation theorem. (English summary) **99b:47058**
Buşe, Constantin (*with* Barbu, Dorel) The Lyapunov equations and nonuniform exponential stability. (English summary) **99k:47084**
Campiti, M. (*with* Metafune, G.) Ventcel's boundary conditions and analytic semigroups. (English summary) **99e:47043**
Casarino, Valentina Spectral properties of weakly asymptotically almost periodic semigroups in the sense of Stepanov. (English and Italian summaries) **99b:47059**
Chojnacki, Wojciech (*with* Kisyński, Jan) On the Favard classes of semigroups associated with pseudo-resolvents. (English summary) **99m:47046**
Cioranescu, Ioana (*with* Keyantuo, Valentin) C-semigroups: generation and analyticity. (English summary) **99g:47090**
Colombo, Fabrizio (*with* Giuli, Massimiliano; Vespri, Vincenzo) Generation of smoothing semigroups by degenerate elliptic operators arising in financial mathematics. (English summary) **99k:47085**
Deng, Jian Ping (*with* Xiao, Ti Jun; Liang, Jin) Holomorphic regularized semigroups and regularized cosine functions. (Chinese. English and Chinese summaries) **99e:47044**
Di Blasio, Gabriella Limiting case for interpolation spaces generated by holomorphic semigroups. (English summary) **99k:47086**
Diekmann, Odo (*with* Filali, Mohammed) Perturbations d'un générateur infinitésimal par un opérateur dépendant du temps. (English and French summaries) [Perturbations of an infinitesimal generator by a time-dependent operator] **99f:47046**
Doumeki, Atsushi The eigenvalue splitting of the Kac operator. (Japanese) (*see* **99a:00049**)
Driouich, A. (*with* El-Mennaoui, O.) On the inverse Laplace transform for C_0-semigroups in UMD-spaces. (English summary) **99g:47091**
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Emamirad, H. (*with* Holtz, R.) Coherent state vectors and entire groups on a Fréchet space. (English summary) **99d:47032**

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Rabinovich, V. S. (*with* Roch, Steffen; Silbermann, Bernd) Fredholm theory and finite section method for band-dominated operators. (English summary) **99f:47037**
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— (*with* Turovskaya, Lyudmila) On representations of $*$-algebras by unbounded operators. (Russian) **99b:46080**
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Ruan, Ying Bin (*with* Zhong, Huai Jie) On the zero variation sequences of the generalized operator ideals. (Chinese. English and Chinese summaries) **99i:47078**
Wenzel, Jörg A supplement to my paper on: "Real and complex operator ideals" [Quaestiones Math. **18** (1995), no. 1-3, 271–285; MR 96i:47083]. (English summary) **99d:47041**
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— *see also* **Ruan, Ying Bin**, **99i:47078**

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Aiena, Pietro (*with* González, Manuel) On inessential and improjective operators. (English summary) **99i:47021**
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Cabello Piñar, Juan Carlos (*with* Nieto, Eduardo; Oja, Eve) On ideals of compact operators satisfying the $M(r, s)$-inequality. (English summary) **99f:46018**
Dar, Sean Isotropic constants of Schatten class spaces. (English summary) **99k:46027**
Dykema, Kenneth J. (*with* Kalton, Nigel J.) Spectral characterization of sums of commutators. II. (English summary) **99g:47079**
Fidaleo, F. Some operator ideals in non-commutative functional analysis. (English summary) **99i:46041**
Fugarolas, M. A. Besov spaces and a trace ideal. (English summary) **99k:47047**
González, Manuel (*with* Gutiérrez del Alamo, Joaquín M.) Injective factorization of holomorphic mappings. (English summary) **99i:46033**
— *see also* **Aiena, Pietro**, **99i:47021**
Gutiérrez del Alamo, Joaquín M. *see* **González, Manuel**, **99i:46033**
Kalton, Nigel J. Spectral characterization of sums of commutators. I. (English summary) **99g:47078**
— *see also* **Dykema, Kenneth J.**, **99g:47079**
López Molina, J. A. (*with* Sánchez Pérez, Enrique A.) The associated tensor norm to (q, p)-absolutely summing operators on $\mathscr{C}(K)$-spaces. (English summary) **99c:47022**
Mazouz, A. On the range and the kernel of the operator $X \mapsto AXB - X$. (English summary) **99j:47051**
Molnár, Lajos (*with* Šemrl, Peter) Order isomorphisms and triple isomorphisms of operator ideals and their reflexivity. (English summary) **99a:47054**
— Characterization of additive $*$-homomorphisms and Jordan $*$-homomorphisms on operator ideals. (English summary) **99m:47042**
Nieto, Eduardo *see* **Cabello Piñar, Juan Carlos; et al.**, **99f:46018**
Oja, Eve *see* **Cabello Piñar, Juan Carlos; et al.**, **99f:46018**
Ruch, David K. Completely continuous and related multilinear operators. (English summary) **99f:47025**
Sánchez Pérez, Enrique A. *see* **López Molina, J. A.**, **99c:47022**
Šemrl, Peter *see* **Molnár, Lajos**, **99a:47054**

47D99 None of the above, but in this section

Popovici, Dan On the geometric structure of minimal dilations on Hilbert C^*-modules. (English summary) **99g:47111**

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Albrecht, Ernst (*with* Ricker, Werner J.) Commutant algebras for certain differential operators in $L^p(\mathbf{R})$. (English summary) **99i:47080**
Beltiţă, Daniel (*with* Şabac, Mihai) An asymptotic formula for the commutators. (English summary) **99b:47009**
Boasso, Enrico On the joint spectra of the two-dimensional Lie algebra of operators in Hilbert spaces. (English summary) **99e:47010**
Cartier, Pierre Classes de formes bilinéaires sur les espaces de Banach. [Classes of bilinear forms on Banach spaces] (*see* **99f:00038**)
Douglas, Ronald G. (*with* Misra, Gadadhar) Geometric invariants for resolutions of Hilbert modules. **99g:46065**
Misra, Gadadhar *see* **Douglas, Ronald G.**, **99g:46065**
Ricker, Werner J. The strong closure of σ-complete Boolean algebras of projections. (English summary) **99m:47027**
— *see also* **Albrecht, Ernst**, **99i:47080**
Şabac, Mihai *see* **Beltiţă, Daniel**, **99b:47009**
Schreiner, Walter J. Matrix regular operator spaces. (English summary) **99d:46025**
Zolotarev, V. A. A functional model of the Lie algebra ISO(1, 1) of linear nonselfadjoint operators. (Russian. Russian summary) **99f:47021**

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Albrecht, Ernst (*with* Ricker, Werner J.) Commutant algebras for certain differential operators in $L^p(\mathbf{R})$. (English summary) **99i:47080**
Allakhverdiev, B. P. On selfadjoint and nonselfadjoint extensions of a Schrödinger-type symmetric operator with a matrix potential. (Russian. English and Azerbaijani summaries) **99j:47067**
Amer, Y. A. *see* **Mohamed, Adel Samy**, **99d:47043**
An, Jianye *see* **Sun, Jiong**, **99e:47059**
Anderson, Terry G. Relatively bounded and compact perturbations of Nth order differential operators. (English summary) **99d:47042**
Boĭmatov, K. Kh. (*with* Seddighi, Karim) Boundary value problems for systems of ordinary differential equations associated with noncoercive forms. (Russian) **99b:47064**
— (*with* Seddighi, Karim) Some spectral properties of ordinary differential operators generated by noncoercive forms. (Russian) **99b:47065**
Cao, Zhijiang *see* **Xu, Yanbo**, **99e:47060**
Cruz-Sampedro, J. (*with* Martínez Avendaño, R. A.; Navarro Cruz, R.) Perturbations of the Wigner-von Neumann potential. (English summary) **99i:47081**
Erovenko, V. A. L^p-essential spectral theory of ordinary differential operators with almost constant coefficients. (English summary) **99a:47071**
Everitt, W. N. (*with* Markus, Lawrence) The Glazman-Krein-Naimark theorem for ordinary differential operators. (English summary) **99c:47070**
Frentzen, Hilbert Boundary conditions for quasi-differential operators in L^p spaces. (English summary) **99e:47058**
Kadiev, R. I., Jr. On the spectrum of a class of Schrödinger operators with a finite number of generalized functions. (Russian) **99h:47053**
Karner, Gunther The Schrödinger equation on non-stationary domains. (English summary) **99f:47059**
Kuroda, S. T. *see* **Nagatani, Hiroshi**, (**99a:00049**)
Liu, Ying fan A regularity theorem for certain $2n$th-order nonlinear differential operator with a parameter. (English summary) **99k:47110**

Malgrange, Bernard Équations de Sturm-Liouville. [Sturm-Liouville equations] (*see* **99f:00034**)
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Martínez Avendaño, R. A. *see* **Cruz-Sampedro, J.; et al., 99i:47081**
Mohamed, Adel Samy (*with* Amer, Y. A.) Separation of a nonlinear Dirac operator in the Hilbert space $H = L_2(\mathbf{R})^l$. (English summary) **99d:47043**
Nagatani, Hiroshi (*with* Kuroda, S. T.) $\mathscr{R}_{-2}$-construction and Hamiltonians with interactions of various type. (Japanese) (*see* **99a:00049**)
Navarro Cruz, R. *see* **Cruz-Sampedro, J.; et al., 99i:47081**
Pyatkov, S. G. Interpolation of some function spaces and indefinite Sturm-Liouville problems. (English summary) **99f:47060**
Rakhimov, Z. Kh. Coercive estimates and decomposability for differential operators of odd order. (Russian. Tajiki summary)
Remling, Christian Spectral analysis of higher order differential operators. I. General properties of the m-function. (English summary) **99k:47111**
Ricker, Werner J. *see* **Albrecht, Ernst, 99i:47080**
Roque, Marian P. Spectral properties of differential expressions with exponentially growing coefficients in weighted space. (English summary) **99k:47112**
Seddighi, Karim *see* **Boĭmatov, K. Kh., 99b:47064** *and* **99b:47065**
Serebryakov, V. P. On the deficiency index of third-order two-term differential operators. (Russian. Russian summary) **99d:47044**
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— On the deficiency index of second-order matrix differential operators. (Russian) **99b:47066**
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Yao, Peng-Fei On the nonnegative square root of the fourth derivative operators. (English summary) **99i:47082**

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Adamyan, V. M. (*with* Mennicken, R.; Saurer, J.) On the discrete spectrum of some selfadjoint operator matrices. (English summary) **99g:47046**
Aĭgunov, G. A. On the eigenfunctions of a class of Schrödinger operators with null range potential. (Russian. English and Russian summaries) **99j:34125**
— On the spectrum of a class of one-dimensional operators of Schrödinger type with generalized potential. (Russian) **99e:34125**
Albeverio, Sergio (*with* Brasche, Johannes; Neidhardt, Hagen) On inverse spectral theory for self-adjoint extensions: mixed types of spectra. (English summary) **99h:47029**
— (*with* Dąbrowski, Ludwik; Kurasov, P.) Symmetries of Schrödinger operators with point interactions. (English summary) **99f:34121**
— (*with* Kurasov, P.) Finite rank perturbations and distribution theory. (English summary) **99m:47012**
Aleksandrova, E. V. (*with* Bochkareva, O. V.; Podol'skiĭ, V. E.) Summation of regularized traces of the singular Sturm-Liouville operator. (Russian. Russian summary) **99c:34197**
Alonso, Vidal (*with* De Vincenzo, Salvatore) General boundary conditions for a Dirac particle in a box and their non-relativistic limits. (English summary) **99d:81029**
Andrianov, A. Yu. Description of transfer functions of an inverse problem for a class of Sturm-Liouville operators. (Russian) **99c:34021**
Arsen'ev, Alekseĭ Alekseevich Some problems in the spectral theory of the Schrödinger operator that are associated with a mathematical model of a tunnel diode. (Russian. English and Russian summaries) **99b:81041**
Athanasiadis, Christodoulos (*with* Kiriaki, Kiriakie; Stratis, Ioannis G.) Electromagnetic wave propagation in stratified media and an application to the magnetotelluric problem. (English summary) **99g:78017**
Auscher, Pascal (*with* McIntosh, Alan G. R.; Nahmod, Andrea R.) The square root problem of Kato in one dimension, and first order elliptic systems. (English summary) **99e:47061**
Baĭramov, È. M. (*with* Çakar, Öner; Krall, Allan M.) An eigenfunction expansion for a quadratic pencil of a Schrödinger operator with spectral singularities. (English summary) **99k:34037**
— *see also* **Krall, Allan M.; et al., 99k:34036**
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Eastham, Michael S. P. On the location of spectral concentration for Sturm-Liouville problems with rapidly decaying potential. **99e:34127**
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— *see also* **del Rio, Rafael; et al., 99a:34032**
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— Errata: "An equiconvergence theorem for higher-order differential operators with a singularity" [Izv. Vyssh. Uchebn. Zaved. Mat. **1998**, no. 1, 41–50; MR 99a:34222]. (Russian)
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Wang, Sheng Hua (*with* Yang, Ming Zhu) The spectra of a class of integrodifferential operators. (Chinese. Chinese summary) **99d:45011**
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47H04 Set-valued operators [see also 28B20, 54C60, 58C06]

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Lopes-Pinto, António J. B. On a new result on the existence of zeros due to Ricceri. (English summary) **99j:47075**

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Balaj, Mircea A fixed point theorem for composed set-valued maps. (English summary) **99k:47136**
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Kaminogo, Takashi Topological degree of solution mappings in functional and ordinary differential equations. (English summary) **99a:34191**
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Mel'nik, V. S. On the theory of the duality of vector and affine processes. (Russian. English and Ukrainian summaries) **99c:49036**
— (*with* Solonukha, O. V.) On stationary variational inequalities with multivalued operators. (Russian. English and Ukrainian summaries) **99d:47070**
— (*with* Valero, José) On attractors of multivalued semi-flows and differential inclusions. (English summary) **99e:34087**
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— A continuation theory for weakly inward maps. (English summary) **99i:47107**
— Fixed points for set-valued mappings in locally convex linear topological spaces. (English summary) **99h:47069**
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— Fixed point theorems for new classes of multimaps. (English summary) **99g:47135**
— (*with* Kim, Hoonjoo) Generalizations of the KKM type theorems on generalized convex spaces. (English summary) **99b:54028**
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— *see also* **Repovš, Dušan D.; et al.**, **99j:54022**
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Singh, Sankatha Prasad On Fan's best approximation and fixed point theorems. (English summary) **99f:47082**
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Tolstonogov, A. A. Continuous selectors of multivalued mappings with nonclosed decomposable values, and their properties. (Russian) **99a:54013**
— (*with* Tolstonogov, D. A.) L_p-continuous extremal selections of multivalued mappings with decomposable values. (Russian) **99c:54026**
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Trif, Tiberiu Singularities and equicontinuity of certain families of set-valued mappings. (English summary) **99j:46092**
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— Multifunction openness and calculus of adjacent and tangent sets. (English summary) **99m:49030**
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Vetrivel, V. *see* **Bhattacharyya, Prodipeswar**, **99g:47129**
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Wu, Xian[3] (*with* Li, Feng) Approximate selection theorems in H-spaces with applications. (English summary) **99j:54044**
— *see also* **Xu, Yuguang[1]**, **99h:49009**
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47H05 Monotone operators (with respect to duality)

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Chen, Yu Qing On the semi-monotone operator theory and applications. (English summary) **99k:47131**
Chen, Zuchi (*with* Yan, Xiaodong) A class of pseudo-monotone operators and its applications in PDE. **99c:47082**

Phelps, R. R. Lectures on maximal monotone operators. **99c:47083**
Schott, Dieter Basic properties of Fejer monotone mappings. (English summary) **99k:47132**
Simons, Stephen Three lectures on minimax and monotonicity. **99i:47096**
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Yan, Xiaodong *see* **Chen, Zuchi**, **99c:47082**

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Azé, Dominique (*with* Penot, Jean-Paul) Uniformly convex and uniformly smooth convex functions. (English and French summaries) **99c:49015**
Barthélemy, Louise (*with* Boulaamayel, Bennasser) Sous-solutions de problèmes aux limites en dimension 1. (English summary) [Subsolutions of boundary value problems in dimension 1] **99m:34031**
Boulaamayel, Bennasser *see* **Barthélemy, Louise**, **99m:34031**
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Fečkan, Michal Existence results for implicit differential equations. (English summary) **99e:34001**
Fitzgibbon, William E. (*with* Morgan, J. J.; Parrott, Mary E.; Webb, G. F.) An age dependent regularization of Martin's problem. **99f:92032**
Górniewicz, Lech Present state of the Brouwer fixed point theorem for multivalued mappings. (English and French summaries) (*see* **99i:00033**)
Iusem, Alfredo N. On some properties of paramonotone operators. (English summary) **99m:47081**
Ivanov, Milen (*with* Zlateva, Nadia) Abstract subdifferential calculus and semi-convex functions. (English summary) **99f:49020**
Kandilakis, Dimitrios A. Pseudomonotonicity and nonlinear hyperbolic equations. (English summary) **99a:35183**
— (*with* Papageorgiou, Nikolaos S.) Nonlinear periodic parabolic problems with nonmonotone discontinuities. (English summary) **99a:35120**
Kimura, Yutaka (*with* Sawasaki, Yoichi; Tanaka, Kensuke) Weak convergence for nonexpansive set-valued mappings. (Japanese) (*see* **99b:90009**)
Kobayashi, Jun On Browder's degree for maximal monotone operators. **99k:47154**
Kourogenis, Nikolaos C. (*with* Papageorgiou, Nikolaos S.) On a class of quasilinear differential equations: the Neumann problem. (English summary) **99m:34037**
Mikhaljević, N. On the solvability of nonlinear equations. (Russian. Russian summary) **99j:47097**
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Papageorgiou, Nikolaos S. *see* **Kandilakis, Dimitrios A.**, **99a:35120**; **Avgerinos, E. P.**, **99j:34017** *and* **Kourogenis, Nikolaos C.**, **99m:34037**
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Phelps, R. R. (*with* Simons, Stephen) Unbounded linear monotone operators on nonreflexive Banach spaces. (English summary) **99k:47003**
Popov, L. D. Two new schemes for applying the projection method to the problem of finding approximate roots of monotone operators. (Russian. English and Russian summaries) **99d:65186**
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Sawasaki, Yoichi *see* **Kimura, Yutaka; et al.**, (**99b:90009**)
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Zălinescu, C. On some conjectures of S. Simons. (English summary) **99m:49032**
Zhou, Hai Yun A generalized degree theory for maximal monotone operators with compact perturbations and its applications. (Chinese. English and Chinese summaries) **99e:47084**
Zlateva, Nadia *see* **Ivanov, Milen**, **99f:49020**

47H06 Accretive operators, dissipative operators, etc.

Aizicovici, Sergiu (*with* Chen, Yu Qing; Reich, Simeon) Accretive operators in locally convex spaces. (English summary) **99k:47133**
Chen, Yu Qing (*with* Zhang, Shi Sheng; Thompson, H. B.; Yuan, Xian-Zhi) Nonlinear accretive operators and semigroups in locally convex spaces. (English summary) **99j:47076**
— *see also* **Aizicovici, Sergiu; et al.**, **99k:47133**
Reich, Simeon *see* **Aizicovici, Sergiu; et al.**, **99k:47133**
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Thompson, H. B. *see* **Chen, Yu Qing; et al.**, **99j:47076**
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Wang, Wei Min (*with* Wang, Shi Ming) Some mapping theorems for compact perturbations of m-accretive operators. (Chinese. English and Chinese summaries) **99f:47066**
Yuan, Xian-Zhi *see* **Chen, Yu Qing; et al.**, **99j:47076**
Zhang, Shi Sheng *see* **Chen, Yu Qing; et al.**, **99j:47076**
Zheng, Lian Wei (*with* Song, Shu Ni) Maximality and continuity of accretive operators. (Chinese. English and Chinese summaries) **99j:47077**
Zhou, Hai Yun Remarks on the mapping theorems involving compact perturbations of M-accretive operators in Banach spaces. (English and Chinese summaries) **99e:47069**

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Chidume, C. E. Convergence theorems for strongly pseudo-contractive and strongly accretive maps. (English summary) **99h:47065**
— Iterative solutions of nonlinear equations of the strongly accretive type. (English summary) **99g:47141**
Cho, Yeol Je *see* **Zhang, Shi Sheng; et al.**, **99g:47146**
Cohen, Nir (*with* Kutscher, Tuvia) On spherical convergence, convexity, and block iterative projection algorithms in Hilbert space. (English summary) **99i:47113**
Feldman, William Nonlinear Carleman operators on Banach lattices. (English summary) **99j:47104**
Jeong, Jae Ug Ishikawa and Mann iteration methods for strongly accretive operators. (English summary) **99c:65111**
Jung, Jong Soo *see* **Zhang, Shi Sheng; et al.**, **99g:47146**
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Lee, Byung Soo *see* **Zhang, Shi Sheng; et al.**, **99g:47146**
Lei, Jin Gan On the convergence of discretizations for set valued operator equations. (English summary) **99d:47068**
Li, Yu Qiang (*with* Liu, Li Wei) Iterative processes for Lipschitz strongly accretive operators. (Chinese. English and Chinese summaries) **99k:47145**
Liu, Li Shan Ishikawa-type and Mann-type iterative processes with errors for constructing solutions of nonlinear equations involving m-accretive operators in Banach spaces. **99e:47077**
Liu, Li Wei *see* **Li, Yu Qiang**, **99k:47145**
Matsumoto, Toshitaka *see* **Peiris, Joseph Jude**, **99m:35121**
Osilike, M. O. Iterative construction of fixed points of multi-valued operators of the accretive type. II. (English summary) **99e:47079**
Peiris, Joseph Jude (*with* Matsumoto, Toshitaka) Quasilinear reaction-diffusion systems in L^∞ spaces. **99m:35121**
Shi, Peter *see* **Showalter, R. E.**, **99b:73020** *and* **99b:73021**
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— (*with* Shi, Peter) Dynamic plasticity models. (English summary) **99b:73021**
Zeng, Liu Chuan Iterative construction of solutions to nonlinear equations of strongly accretive operators in Banach spaces. (English and Chinese summaries) **99i:47114**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Lee, Byung Soo; Jung, Jong Soo; Kang, Shin Min) Iterative approximations of fixed points and solutions for strongly accretive and strongly pseudo-contractive mappings in Banach spaces. (English summary) **99g:47146**
Zhou, Hai Yun Iterative solutions of nonlinear equations involving strongly accretive operators without the Lipschitz assumption. (English summary) **99d:47058**

47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

Chambolle, Antonin (*with* Lucier, Bradley J.) Un principe du maximum pour des opérateurs monotones. (English and French summaries) [A maximum principle for order-preserving mappings] **99g:47125**
Li, Fu Yi A two-point expansion fixed point theorem and solutions of convex-concave operator equations with applications. (Chinese. English and Chinese summaries) **99b:47080**
Liz, Eduardo (*with* Nieto, Juan J.) An abstract monotone iterative method and applications. (English summary) **99f:47067**
Lucier, Bradley J. *see* **Chambolle, Antonin**, **99g:47125**
Lungu, Nicolae On some Gronwall-type inequalities for monotonic operators. **99a:47078**
Nieto, Juan J. *see* **Liz, Eduardo**, **99f:47067**
Sommariva, Alvise (*with* Vianello, Marco) Approximating fixed-points of decreasing operators in spaces of continuous functions. (English summary) **99h:47060**
Vianello, Marco *see* **Sommariva, Alvise**, **99h:47060**
Zima, Mirosława The abstract Gronwall lemma for some nonlinear operators. (English summary) **99h:47061**

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Liang, Zhan Dong Some properties of nonlinear operators and positive solutions of a class of integral equations. (Chinese. English and Chinese summaries) **99a:45012**
Ma, Yi Hai A fixed point theorem for a class of mixed monotone operators and its applications. (Chinese. English and Chinese summaries) **99d:47054**
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Precup, Radu Monotone iterations for decreasing maps in ordered Banach spaces. (English summary) (*see* **99i:00027**)
Redheffer, Irene (*with* Volkmann, Peter) Ein Fixpunktsatz für quasimonoton wachsende Funktionen. (English summary) [A fixed-point theorem for quasimonotonically increasing functions] **99a:47086**
Sobolev, Aleksandr Vladimirovich[1] (*with* Sobolev, Vladimir Ivanovich) Monotonicity and fixed points of nonlinear discontinuous operators. (Russian) (*see* **99a:00016**)
Sobolev, Vladimir Ivanovich *see* **Sobolev, Aleksandr Vladimirovich[1]**, (**99a:00016**)
Veresova, A. T. (*with* Mosyagin, V. V.) On the theory of operators in bornological vector spaces with a cone. (Russian. English and Russian summaries) **99d:47056**
Volkmann, Peter *see* **Redheffer, Irene**, **99a:47086**
Xu, Yuguang[1] Ishikawa and Mann iterative processes with errors for nonlinear strongly accretive operator equations. (English summary) **99g:47144**
Yan, Baoqiang On the existence of multiple solutions of superlinear Hammerstein integral equations. (English and Chinese summaries) **99m:45009**

47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A-proper mappings, K-set contractions, etc.)

Atsushiba, Sachiko Nonlinear ergodic theorems for families of nonexpansive mappings in Banach spaces. **99c:47084**
— Modulus of convexity and convergence theorems for families of nonexpansive mappings. (Japanese) (*see* **99f:00024**)
Ayerbe Toledano, J. M. (*with* Domínguez Benavides, T.; López Acedo, G.) ★ Measures of noncompactness in metric fixed point theory. (English summary) **99e:47070**
Chen, Dong Qing *see* **Zhou, Hai Yun**, **99m:47061**
Chidume, C. E. (*with* Moore, Chika) Fixed point iteration for pseudocontractive maps. (English summary) **99f:47068**
Dhage, B. C. Multi-valued condensing mappings and differential inclusions in locally convex spaces. (English summary) **99f:47069**
Domínguez Benavides, T. *see* **Ayerbe Toledano, J. M.; et al.**, **99e:47070**
Jovanović, Ivan (*with* Rakočević, Vladimir) Multipliers of mixed-norm sequence spaces and measures of noncompactness. II. (English summary) **99c:47085**
Jung, Jong Soo (*with* Kim, Seong Sik) Strong convergence theorems for nonexpansive nonself-mappings in Banach spaces. (English summary) **99g:47126**
— (*with* Kim, Tae Hwa) Strong convergence theorems for multivalued nonexpansive mappings in Banach spaces. (English summary) **99f:47070**
— (*with* Kim, Seong Sik) Strong convergence theorems for nonexpansive nonself-mappings in Banach spaces. **99j:47078**
— (*with* Sahu, Daya Ram; Thakur, Balwant Singh) Strong convergence theorems for asymptotically nonexpansive mappings in Banach spaces. (English summary) **99g:47127**
— (*with* Kim, Tae Hwa) Strong convergence of approximating fixed points for nonexpansive nonself-mappings in Banach spaces. (English summary) **99k:47134**
— (*with* Sahu, Daya Ram) Approximating fixed points of asymptotically nonexpansive mappings. (English summary) **99f:47071**
— *see also* **Thakur, Balwant Singh; et al.**, **99j:47081**
Kim, Gang-Eun *see* **Takahashi, Wataru**, **99h:47063**
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Kirk, William A. (*with* Yañez, Carlos Martinez; Shin, Sang Sik) Asymptotically nonexpansive mappings. **99g:47128**
Krüppel, Manfred On the nearest point projection in Hilbert spaces with application to nonlinear ergodic theory. (English summary) **99h:47062**
Lau, Anthony To-Ming (*with* Shioji, Naoki; Takahashi, Wataru) Existence of nonexpansive retractions for amenable semigroups of nonexpansive mappings and nonlinear ergodic theorems in Banach spaces. (English summary) **99j:47079**
Li, Gang[1] A global convergence theorem for non-Lipschitzian topological semigroups over Hilbert spaces. (Chinese. English and Chinese summaries) **99a:47079**
— (*with* Ma, Ji Pu) Ergodic theorems for non-Lipschitzian semigroups without convexity. (English summary) **99j:47080**
Lin, Tzu-Chu (*with* Park, Sehie) Approximation and fixed-point theorems for condensing composites of multifunctions. (English summary) **99c:47086**
Liu, Feng[1] *see* **Zhang, Zhuo Sheng**, **99d:47049**
Llorens-Fuster, Enrique (*with* Sims, Brailey) The fixed point property in c_0. (English summary) **99i:47097**
López Acedo, G. *see* **Ayerbe Toledano, J. M.; et al.**, **99e:47070**
Ma, Ji Pu *see* **Li, Gang[1]**, **99j:47080**
Moore, Chika *see* **Chidume, C. E.**, **99f:47068**
Park, Sehie Remarks on admissible multifunctions and the Leray-Schauder principles. (English summary) **99f:47072**
— *see also* **Lin, Tzu-Chu**, **99c:47086**
Precup, Radu On the continuation principle for nonexpansive maps. (English summary) **99f:47073**
Rakočević, Vladimir *see* **Jovanović, Ivan**, **99c:47085**
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Schott, Dieter Weak convergence of iterative methods generated by strongly Fejér monotone mappings. (English summary) **99c:47087**
Sharma, Birendra Kumar *see* **Thakur, Balwant Singh; et al.**, **99j:47081**
Shin, Sang Sik *see* **Kirk, William A.; et al.**, **99g:47128**
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Callier, Frank M. (*with* Dumortier, Laurence) Partially stabilizing LQ-optimal control for stabilizable semigroup systems. (English summary) **99i:93049**
Curtain, Ruth F. The Salamon-Weiss class of well-posed infinite-dimensional linear systems: a survey. (English summary) **99a:93054**
Da Prato, Giuseppe (*with* Zabczyk, Jerzy) Differentiability of the Feynman-Kac semigroup and a control application. (English and Italian summaries) **99f:49041**
Dewilde, Patrick (*with* van der Veen, Alle-Jan) ★ Time-varying systems and computations. (English summary) **99g:93001**
Do Cong Khanh (*with* Nguyen Minh Hang) Explicit cascade decompositions of unitary systems. (English summary) **99m:93014**
Dumortier, Laurence *see* **Callier, Frank M., 99i:93049**
Dymkov, M. P. Optimal control of a discrete Volterra system by a quadratic performance functional. (Russian. English and Russian summaries) **99a:49042**
Fattorini, H. O. Nonlinear infinite-dimensional optimal control problems with state constraints and unbounded control sets. (English summary) **99a:49036**
Feintuch, Avraham (*with* Markus, Alexander) Isometric dilations in nest algebras. (English summary) **99e:47013**
Foias, Ciprian (*with* Frazho, A. E.; Gohberg, Israel; Kaashoek, M. A.) ★ Metric constrained interpolation, commutant lifting and systems. (English summary) **99i:47027**
Förster, K.-H. (*with* Nagy, Béla) On nonnegative realizations of rational matrix functions and nonnegative input-output systems. (English summary) **99f:93022**
Frazho, A. E. *see* **Foias, Ciprian; et al., 99i:47027**
Fulcheri, Pascale (*with* Olivi, Martine) Matrix rational H_2 approximation: a gradient algorithm based on Schur analysis. (English summary) **99e:93024**
Gheondea, Aurelian (*with* Ober, Raimund J.) Spectral minimality of J-positive linear systems of finite order. (English summary) **99f:93026**
(Gilliam, David S.) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
Gohberg, Israel *see* **Foias, Ciprian; et al., 99i:47027**
Grabowski, Piotr Spectral approach to well-posedness and stability analysis of hybrid feedback systems. (English summary) **99h:93072**
Han, Hyo-Keun (*with* Park, Jong Yeoul) Boundary controllability of differential equations with nonlocal condition. (English summary) **99k:93021**
Helton, J. William (*with* Stankus, Mark) Computer assistance for "discovering" formulas in system engineering and operator theory. (English summary) **99m:93029**
Kaashoek, M. A. (*with* Pik, D. R.) Factorization of lower triangular unitary operators with finite Kronecker index into elementary factors. (English summary) **99i:47035**
— (*with* van der Mee, C. V. M.; Ran, A. C. M.) Wiener-Hopf factorization of transfer functions of extended Pritchard-Salamon realizations. (English summary) **99k:47030**
— *see also* **Arov, Damir Z.; et al., 99i:47017** *and* **Foias, Ciprian; et al., 99i:47027**
Kakihara, Yûichirô Kalman filter in normal Hilbert modules. (English summary) **99j:93103**
Kartsatos, Athanassios G. (*with* Liang, Chunlong) Extending the class of pre-assigned responses in problems of K-controllability in general Banach spaces. **99b:93009**
Kuiper, C. R. (*with* Zwart, H. J.) Connections between the algebraic Riccati equation and the Hamiltonian for Riesz-spectral systems. (English summary) **99k:47037**
Liang, Chunlong *see* **Kartsatos, Athanassios G., 99b:93009**
Markus, Alexander *see* **Feintuch, Avraham, 99e:47013**
McMillan, Christine Alicia Equivalent conditions for the solvability of nonstandard LQ-problems with applications to partial differential equations with continuous input-output solution map. (English summary) **99i:49038**
van der Mee, C. V. M. *see* **Kaashoek, M. A.; et al., 99k:47030**
Nagy, Béla *see* **Förster, K.-H., 99f:93022**
Nguyen Minh Hang *see* **Do Cong Khanh, 99m:93014**
Nikol′skiĭ, Nikolai K. Contrôlabilité à une renormalisation près et petits opérateurs de contrôle. (English summary) [Controllability up to renormalization and small control operators] **99f:93014**
Ober, Raimund J. Asymptotic stabilization of infinite-dimensional systems which cannot be exponentially stabilized. (English summary) **99f:93119**
— *see also* **Gheondea, Aurelian, 99f:93026**
Olivi, Martine *see* **Fulcheri, Pascale, 99e:93024**
Park, Jong Yeoul *see* **Han, Hyo-Keun, 99k:93021**
Partington, Jonathan R. ★ Interpolation, identification, and sampling. **99m:41001**
Peller, Vladimir V. Hereditary properties of solutions of the four block problem. (English summary) **99g:47029**
(Picci, Giorgio) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
Pik, D. R. *see* **Arov, Damir Z.; et al., 99i:47017** *and* **Kaashoek, M. A., 99i:47035**
Ran, A. C. M. *see* **Kaashoek, M. A.; et al., 99k:47030**
Root, William L. (*with* Serakos, Demetrios) The state of dynamical input-output systems as an operator. (English summary) **99f:93033**
Rozenvasser, E. N. Frequency analysis and H^2-norm of linear periodic operators. (Russian. Russian summary) **99c:93037**
Serakos, Demetrios *see* **Root, William L., 99f:93033**
Shubov, Marianna A. Spectral operators generated by 3-dimensional damped wave equation and applications to control theory. (English summary) **99g:93047**
Staffans, Olof J. Feedback representations of critical controls for well-posed linear systems. (English summary) **99m:93043**
Stankus, Mark *see* **Helton, J. William, 99m:93029**
Urbina, Wilfredo *see* **Bárcenas, Diómedes, 99e:28021**

van der Veen, Alle-Jan *see* **Dewilde, Patrick**, **99g:93001**
Vinnikov, Victor Commuting operators and function theory on a Riemann surface. (English summary) **99e:47018**
Vladimirov, A. A. Memory properties of hysteresis media. (Russian. Russian summary) **99c:47119**
Wirth, Fabian On stability of infinite-dimensional discrete inclusions. (English summary) **99j:93073**
Wu, Bao Wei Realization of linear systems over a commutative Banach algebra. (Chinese. English and Chinese summaries) **99f:93024**
Yang, Mee Hyea Julia operators and linear systems. (English summary) **99g:47083**
Young, Nicholas J. Some function-theoretic issues in feedback stabilisation. (English summary) **99c:93094**
Zabczyk, Jerzy *see* **Da Prato, Giuseppe**, **99f:49041**
Zucker, Y. Block Toeplitz operators with rational symbol analytic at infinity. (English summary) **99e:47035**
Zwart, H. J. *see* **Kuiper, C. R.**, **99k:47037**

Items listed otherwise than by author

Dynamical systems, control, coding, computer vision ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Padova ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Dynamical systems, control, coding, computer vision. **99k:93006**

47N99 None of the above, but in this section

Items with secondary classifications in 47N99

Dorofeev, S. V. (*with* Sherstnev, A. N.) Frame-type functions and their applications. **99k:46113**
Sherstnev, A. N. *see* **Dorofeev, S. V.**, **99k:46113**
Tanaka, Jun-ichi Extensions of almost periodic functions and Hardy spaces. (Japanese) (*see* **99i:00018**)

47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Diarra, Bertin An operator on some ultrametric Hilbert spaces. (English summary) **99m:47088**
Keller, Hans Arwed (*with* Ochsenius A., Herminia) An algebra of self-adjoint operators on a non-Archimedean orthomodular space. **99j:47108**
— (*with* Ochsenius A., Herminia) Residual spaces and operators on orthomodular spaces. (English summary) **99j:47109**
— (*with* Ochsenius A., Herminia) On the geometry of orthomodular spaces over fields of power series. (English summary) **99f:47095**
Komal, B. S. (*with* Singh, Nagesh) Non-Archimedean multiplication operators. (English summary) **99c:47121**
Ochsenius A., Herminia *see* **Keller, Hans Arwed**, **99f:47095**; **99j:47108** *and* **99j:47109**
Singh, Nagesh *see* **Komal, B. S.**, **99c:47121**

Items with secondary classifications in 47S10

Kochubeĭ, A. N. Harmonic oscillator in characteristic p. (English summary) **99f:11155**
Natarajan, P. N. Matrix transformations between certain sequence spaces over valued fields. (English summary) **99f:47036**
Ochsenius, Maria H. (*with* Schikhof, Wilhelmus H.) Norm Hilbert spaces. (English summary) **99k:46132**
Schikhof, Wilhelmus H. *see* **Ochsenius, Maria H.**, **99k:46132**
Vladimirov, V. S. Some problems of analysis on the field of p-adic numbers. (English summary) **99e:11147**
Yang, Zifeng Locally analytic functions over completions of $\mathbf{F}_r[U]$. (English summary) **99h:11062**

47S20 Nonstandard operator theory [see also 03H05]

Borde, Pascal Perturbation infinitésimale d'un opérateur compact. [Infinitesimal perturbation of a compact operator] **99b:47108**
— Spectre d'un opérateur S-compact. [Spectrum of an S-compact operator] **99b:47109**

Items with secondary classifications in 47S20

Baratella, Stefano (*with* Ng, Siu-Ah) Fixed points in the nonstandard hull of a Banach space. **99f:47075**
Borde, Pascal Strongly near-standard functions in Lebesgue's spaces. (English summary) **99j:28019**
González, Manuel (*with* Martínez-Abejón, Antonio) Ultrapowers and semi-Fredholm operators. (Italian summary) **99e:47019**
Lyantse, V. È. (*with* Yavorskii, Yu. M.) A nonstandard difference Sturm-Liouville operator. (English summary) **99g:47074**
Martínez-Abejón, Antonio *see* **González, Manuel**, **99e:47019**
Ng, Siu-Ah *see* **Baratella, Stefano**, **99f:47075**
Yavorskii, Yu. M. *see* **Lyantse, V. È.**, **99g:47074**

47S30 Constructive operator theory [see also 03F65]

Items with secondary classifications in 47S30

Bridges, Douglas (*with* Ishihara, Hajime) A definite constructive open mapping theorem? (English summary) **99f:46009**
— (*with* Dudley Ward, Nicholas F.) Constructing ultraweakly continuous functionals on $\mathcal{B}(H)$. (English summary) **99a:47067**
Dudley Ward, Nicholas F. *see* **Bridges, Douglas**, **99a:47067**
Ishihara, Hajime *see* **Bridges, Douglas**, **99f:46009**

47S40 Fuzzy operator theory [see also 04A72]

Beg, Ismat Extension of fuzzy positive linear operators. (English summary) **99i:47119**

Items with secondary classifications in 47S40

Al-Shemas, Eman H. On complementarity problems. (English summary) **99k:47166**
Huang, Nan Jing *see* **Wu, Dingping; et al.**, **99g:47152**
Lee, Byung Soo *see* **Park, Sehie; et al.**, **99g:47151** *and* **Zhang, Shi Sheng; et al.**, **99m:47082**
Lee, Gue Myung *see* **Park, Sehie; et al.**, **99g:47151** *and* **Zhang, Shi Sheng; et al.**, **99m:47082**
Long, Xiang *see* **Wu, Dingping; et al.**, **99g:47152**
Noor, Muhammad Aslam Variational inequalities for fuzzy mappings. II. (English summary) **99d:90141**
— General variational inequalities for fuzzy mappings. (English summary) **99c:49012**
Park, Sehie (*with* Lee, Byung Soo; Lee, Gue Myung) A general vector-valued variational inequality and its fuzzy extension. (English summary) **99g:47151**
Wu, Dingping (*with* Long, Xiang; Huang, Nan Jing) Generalized nonlinear variational inclusions for fuzzy mappings. (English and Chinese summaries) **99g:47152**
Zhang, Shi Sheng (*with* Lee, Gue Myung; Lee, Byung Soo) Vector quasivariational inequalities for fuzzy mappings. II. (English summary) **99m:47082**

47S50 Operator theory in probabilistic metric linear spaces

Kang, Shi-kun *see* **Zhang, Shi Sheng; et al.**, **99e:47101**
Khan, Ahmad (*with* Zertaj, Sh.) Results concerning common fixed point in random normed spaces. (English summary) **99k:47184**
Lafuerza Guillén, Bernardo (*with* Rodríguez Lallena, José Antonio; Sempi, Carlo) Probabilistic norms for linear operators. **99f:47096**
Luo, Qun Properties of positive operators and orthogonal projection operators on random inner product modules. (Chinese. English and Chinese summaries) **99k:47185**
Părău, E. (*with* Radu, Viorel) Some remarks on Tardiff's fixed point theorem on Menger spaces. **99k:47186**
Radu, Viorel *see* **Părău, E.**, **99k:47186**
Rodríguez Lallena, José Antonio *see* **Lafuerza Guillén, Bernardo; et al.**, **99f:47096**
Sempi, Carlo *see* **Lafuerza Guillén, Bernardo; et al.**, **99f:47096**
Wang, Fan[1] *see* **Zhang, Shi Sheng; et al.**, **99e:47101**
Zertaj, Sh. *see* **Khan, Ahmad**, **99k:47184**
Zhang, Shi Sheng (*with* Kang, Shi-kun; Wang, Fan[1]) On the existence problems of solutions for nonlinear operator equations with probabilistic contractor in PN-spaces. (English and Chinese summaries) **99e:47101**

Items with secondary classifications in 47S50

Bylka, Czesław Coincidence theorems in random normed spaces. (English summary) **99i:47099**
Hadžić, Olga (*with* Ovcin, Zoran) A coincidence point theorem for multivalued mappings in 2-Menger spaces. (English summary) **99k:47140**
Jin, Byoung Jae *see* **Kim, Jong Kyu**, **99f:34091**
Kim, Jong Kyu (*with* Jin, Byoung Jae) Existence of solutions for differential equations on closed subsets in a probabilistic normed space. (English summary) **99f:34091**
Luo, Qun Spectral family representation of a class of operators on complex random inner product modules. (Chinese. English and Chinese summaries) **99d:47031**
Ovcin, Zoran *see* **Hadžić, Olga**, **99k:47140**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Smith, Donald Ray ★ Variational methods in optimization. (English summary) **99g:49001**

Items with secondary classifications in 49–01

(Azad, Hassan) *see* **Jost, Jürgen, 99f:00002**
Jost, Jürgen ★ Postmodern analysis. (English summary) **99f:00002**
Sontag, Eduardo D. ★ Mathematical control theory. (English summary) **99k:93001**

49–02 Research exposition (monographs, survey articles)

Arutyunov, A. V. ★ Условия экстремума. (Russian. Russian summary) [Extremum conditions] **99c:49001**
Bardi, Martino (*with* Capuzzo-Dolcetta, Italo) ★ Optimal control and viscosity solutions of Hamilton-Jacobi-Bellman equations. (English summary) **99e:49001**
Braides, Andrea ★ Approximation of free-discontinuity problems. **99j:49001**
Capuzzo-Dolcetta, Italo *see* **Bardi, Martino, 99e:49001**
(Chibisov, D. M.) *see* **Milyutin, Alekseĭ A., 99g:49002**
Clarke, F. H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay; Wolenski, Peter R.) ★ Nonsmooth analysis and control theory. (English summary) **99a:49001**
(Falcone, Maurizio) *see* **Bardi, Martino, 99e:49001**
Ledyaev, Yu. S. *see* **Clarke, F. H.; et al., 99a:49001**
Milyutin, Alekseĭ A. (*with* Osmolovskiĭ, Nikolai P.) ★ Calculus of variations and optimal control. (English summary) **99g:49002**
Osmolovskiĭ, Nikolai P. *see* **Milyutin, Alekseĭ A., 99g:49002**
(Soravia, Pierpaolo) *see* **Bardi, Martino, 99e:49001**
Stern, Ronald Jay *see* **Clarke, F. H.; et al., 99a:49001**
Wolenski, Peter R. *see* **Clarke, F. H.; et al., 99a:49001**

Items with secondary classifications in 49–02

(Jakubczyk, Bronisław) *see* **Geometry of feedback and optimal control, 99b:93001**
(Respondek, Witold) *see* **Geometry of feedback and optimal control, 99b:93001**
Tröltzsch, Fredi A survey on second order optimality conditions for the optimal control of partial differential equations. **99f:49033**

Items listed otherwise than by author

Geometry of feedback and optimal control ★ Geometry of feedback and optimal control. **99b:93001**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Aguilar Q., Gonzalo Abel's mechanics problem: a simple application of the convolution theorem. (Spanish. Spanish summary)
Plail, Michael ★ Die Entwicklung der optimalen Steuerungen. (German) [The development of optimal controls] **99k:49001**
Tatarkiewicz, Krzysztof Hilbert's problems and the calculus of variations. (The history of Hilbert's Nineteenth and Twenty-third Problems in the twentieth century). (Polish. English summary) (*see* **99b:01001**)

Items with secondary classifications in 49–03

Erlichson, Herman Galileo's work on swiftest descent from a circle and how he almost proved the circle itself was the minimum time path. **99e:01011**
(Galilei, Galileo) *see* **Erlichson, Herman, 99e:01011**
Galperin, Efim A. Some old traditions in mathematics and in mathematical education. (English summary) **99m:01107**
Knobloch, Hans Wilhelm Variationsrechnung, Spieltheorie und "economic dynamics". [Calculus of variations, game theory and "economic dynamics"] (*see* **99f:01003**)
Marcellini, Paolo Some recent developments in the study of Hilbert's 19th and 20th problems. (Italian) **99a:01017**

49–06 Proceedings, conferences, collections, etc.

(Borggaard, Jeff) *see* **Computational methods for optimal design and control, 99d:49001**
(Burns, John A.) *see* **Computational methods for optimal design and control, 99d:49001**
(Caccetta, Louis) *see* **Dynamics and optimization, 99g:49003**
(Cliff, Eugene M.) *see* **Computational methods for optimal design and control, 99d:49001**
(De Luca, Marino) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 99a:49002**
(Desch, W.) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Giannessi, Franco) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 99a:49002**
(Hager, William W.) *see* **Optimal control, 99d:49002**
(Ivanov, Radostin) *see* **Proceedings: Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems, 99k:49002**
(Kappel, F.) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Kenderov, P. S.) *see* **Proceedings: Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems, 99k:49002**
(Kunisch, Karl) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Maugeri, Antonino) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 99a:49002**
(Pardalos, Panos M.) *see* **Optimal control, 99d:49002**
(Revalski, J. P.) *see* **Proceedings: Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems, 99k:49002**
(Schreck, Scott) *see* **Computational methods for optimal design and control, 99d:49001**
(Sritharan, S. S.) *see* **Optimal control of viscous flow, 99a:49003**
(Teo, Kok Lay) *see* **Dynamics and optimization, 99g:49003**

Items listed otherwise than by author

Arlington, VA ★ Computational methods for optimal design and control. **99d:49001**
Computational methods for optimal design and control ★ Computational methods for optimal design and control. **99d:49001**
Conference:
- **Control and Estimation of Distributed Parameter Systems** ★ Control and estimation of distributed parameter systems. **99b:49001**
- **Differential Equations and Dynamical Systems** ★ Dynamics and optimization. **99g:49003**
- **Mathematical Methods in Operations Research** ★ Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems. **99k:49002**
- **Optimal Control: Theory, Algorithms, and Applications** ★ Optimal control. **99d:49002**

Control and estimation of distributed parameter systems ★ Control and estimation of distributed parameter systems. **99b:49001**
Dynamics and optimization ★ Dynamics and optimization. **99g:49003**
Equilibrium problems with side constraints. Lagrangean theory and duality ★ Equilibrium problems with side constraints. Lagrangean theory and duality. II. **99a:49002**
Gainesville, FL ★ Optimal control. **99d:49002**
Memorial Issue:
- **Ivanov, Radostin Petrov** ★ Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems. **99k:49002**

Optimal control ★ Optimal control. **99d:49002**
Optimal control of viscous flow ★ Optimal control of viscous flow. **99a:49003**
Proceedings:
- **Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems** ★ Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems. **99k:49002**

Scilla ★ Equilibrium problems with side constraints. Lagrangean theory and duality. II. **99a:49002**
Session:
- **Dynamics and Optimization** ★ Dynamics and optimization. **99g:49003**

Sozopol ★ Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems. **99k:49002**
Vorau ★ Control and estimation of distributed parameter systems. **99b:49001**
Waterloo, ON ★ Dynamics and optimization. **99g:49003**
Workshop:
- **Equilibrium Problems with Side Constraints. Lagrangean Theory and Duality** ★ Equilibrium problems with side constraints. Lagrangean theory and duality. II. **99a:49002**
- **Optimal Design and Control** ★ Computational methods for optimal design and control. **99d:49001**
- **Well-posedness and Stability of Optimization Problems** ★ Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems. **99k:49002**

Items with secondary classifications in 49–06

(Delfour, Michel C.) *see* **Boundaries, interfaces, and transitions, 99a:00021**
(Dontchev, Asen L.) *see* **Systems modelling and optimization, 99k:93007**
(Fabre, Caroline) *see* **Control and partial differential equations, 99g:00037**
(Ferreyra, Guillermo) *see* **Differential geometry and control, 99f:93003**
(Galperin, Efim A.) *see* **Global optimization, control, and games, 99i:90003**
(Gardner, Robert Brown) *see* **Differential geometry and control, 99f:93003**
(Gunzburger, Max D.) *see* **Flow control and optimization, 99k:76005**
(Hermes, Henry) *see* **Differential geometry and control, 99f:93003**
(Hou, LiSheng) *see* **Flow control and optimization, 99k:76005**
(Kall, Peter) *see* **Systems modelling and optimization, 99k:93007**
(Lasiecka, Irena) *see* **Systems modelling and optimization, 99k:93007**
(Mignot, Fulbert) *see* **Control and partial differential equations, 99g:00037**
(Olbrot, Andrzej W.) *see* **Systems modelling and optimization, 99k:93007**
(Polis, Michael P.) *see* **Systems modelling and optimization, 99k:93007**
(Puel, Jean-Pierre) *see* **Control and partial differential equations, 99g:00037**
(Ricceri, Biagio) *see* **Minimax theory and applications, 99c:49007**
(Simons, Stephen) *see* **Minimax theory and applications, 99c:49007**
(Sussmann, Héctor J.) *see* **Differential geometry and control, 99f:93003**
(Tucsnak, Marius) *see* **Control and partial differential equations, 99g:00037**
(Zuazua, Enrique) *see* **Control and partial differential equations, 99g:00037**

Items listed otherwise than by author

Banff, AB ★ Boundaries, interfaces, and transitions. **99a:00021**
Boulder, CO ★ Differential geometry and control. **99f:93003**
Boundaries, interfaces, and transitions ★ Boundaries, interfaces, and transitions. **99a:00021**
Conference:
- **Control and Partial Differential Equations** ★ Control and partial differential equations. **99g:00037**

Control and partial differential equations ★ Control and partial differential equations. **99g:00037**
Detroit, MI ★ Systems modelling and optimization. **99k:93007**
Differential geometry and control ★ Differential geometry and control. **99f:93003**
Erice ★ Minimax theory and applications. **99c:49007**
Flow control and optimization ★ Flow control and optimization. **99k:76005**
Global optimization, control, and games ★ Global optimization, control, and games. III. **99i:90003**

IFIP Conference:
Systems Modelling and Optimization ★ Systems modelling and optimization. **99k:93007**
Marseille-Luminy ★ Control and partial differential equations. **99g:00037**
Minimax theory and applications ★ Minimax theory and applications. **99c:49007**
Proceedings of Symposia in Pure Mathematics ★ Differential geometry and control. **99f:93003**
Research Institute:
Differential Geometry and Control ★ Differential geometry and control. **99f:93003**
School:
Boundaries, Interfaces, and Transitions ★ Boundaries, interfaces, and transitions. **99a:00021**
Special Issue:
Flow control and optimization ★ Flow control and optimization. **99k:76005**
Global optimization, control, and games ★ Global optimization, control, and games. III. **99i:90003**
Systems modelling and optimization ★ Systems modelling and optimization. **99k:93007**
Workshop:
Minimax Theory and Applications ★ Minimax theory and applications. **99c:49007**

49Jxx Existence theory for optimal solutions

49J05 Free problems in one independent variable

Anderson, Norman H. (*with* Arthurs, A. M.) Hamilton-Jacobi results for the brachistochrone. (English summary)
Arthurs, A. M. *see* **Anderson, Norman H.**
Fusco, Nicola (*with* Marcellini, Paolo; Ornelas, António) Existence of minimizers for some non-convex one-dimensional integrals. (English summary) **99e:49002**
Giannessi, Franco (*with* Uderzo, Amos) A multifunction approach to extremum problems having infinite-dimensional image. I. Composition and selection. (English summary) **99i:49001**
Marcelli, Cristina One-dimensional non-coercive problems of the calculus of variations. (English summary) **99d:49003**
Marcellini, Paolo *see* **Fusco, Nicola; et al., 99e:49002**
Ornelas, António Existence of scalar minimizers for nonconvex simple integrals of sum type. (English summary) **99d:49004**
— *see also* **Fusco, Nicola; et al., 99e:49002**
Ramm, Alexander G. Inequalities for brachistochrone. (English summary)
Rubio, J. E. The global optimization of variational problems with discontinuous solutions. (English summary) **99b:49002**
Uderzo, Amos *see* **Giannessi, Franco, 99i:49001**
Zaslavski, Alexander J. Existence and structure of extremals for one-dimensional nonautonomous variational problems. (English summary) **99d:49005**
— Turnpike property for extremals of variational problems with vector-valued functions. (English summary) **99c:49002**

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Bakša, Aleksandar Brachystochronous movement on a manifold. (English and Serbian summaries) **99g:70024**
Bolle, Philippe On the Bolza problem. (English summary) **99m:58043**
Dacorogna, Bernard (*with* Došlý, Ondřej) Convexity of certain integrals of the calculus of variations. III. (Italian summary) **99a:49027**
Došlý, Ondřej *see* **Dacorogna, Bernard, 99a:49027**
Saje, M. *see* **Vratanar, B., 99a:70028**
Shcherbakov, E. A. Free boundary value problem for the axisymmetric fluid's flow with surface tension and wedging forces. (English summary) **99m:76033**
Tatarkiewicz, Krzysztof Hilbert's problems and the calculus of variations. (The history of Hilbert's Nineteenth and Twenty-third Problems in the twentieth century). (Polish. English summary) (*see* **99b:01001**)
Vratanar, B. (*with* Saje, M.) On the analytical solution of the brachistochrone problem in a non-conservative field. (English summary) **99a:70028**

49J10 Free problems in two or more independent variables

Ahlbrandt, Calvin D. (*with* Harmsen, Betty Jean) Discrete versions of continuous isoperimetric problems. (English summary) **99c:49003**
Boccardo, Lucio (*with* Orsina, Luigi) Existence and regularity of minima for integral functionals noncoercive in the energy space. **99k:49003**
Bucur, Dorin (*with* Buttazzo, Giuseppe; Henrot, Antoine) Existence results for some optimal partition problems. (English summary) **99k:49004**
Buttazzo, Giuseppe *see* **Bucur, Dorin; et al., 99k:49004**
Celada, Pietro (*with* Perrotta, Stefania; Treu, Giulia) Existence of solutions for a class of nonconvex minimum problems. **99i:49002**
— (*with* Perrotta, Stefania) Functions with prescribed singular values of the gradient. (English summary) **99f:49001**
Cox, Steven J. (*with* Kawohl, Bernd; Uhlig, P. X.) On the optimal insulation of conductors. (English summary) **99k:49005**
Dacorogna, Bernard (*with* Haeberly, Jean-Pierre) Some numerical methods for the study of the convexity notions arising in the calculus of variations. (English and French summaries) **99e:49003**
Dogaru, Oltin (*with* Ţevy, I.; Udrişte, Constantin) Extrema constrained by a family of curves and local extrema. (English summary) **99c:49004**
Drakhlin, Mikhail E. (*with* Stepanov, E. O.) Direct methods of the calculus of variations for functionals with nonlocal transformations of argument. (English summary) **99h:49001**
Fuchs, Martin[2] (*with* Li, Gongbao; Martio, Olli) Second order obstacle problems for vectorial functions and integrands with subquadratic growth. (English summary) **99i:49003**
Hadiji, Rejeb (*with* Zhou, Feng[2]) A problem of minimization with relaxed energy. (English and French summaries) **99d:49006**
Haeberly, Jean-Pierre *see* **Dacorogna, Bernard, 99e:49003**
Harmsen, Betty Jean *see* **Ahlbrandt, Calvin D., 99c:49003**
Henrot, Antoine *see* **Bucur, Dorin; et al., 99k:49004**
Kawohl, Bernd *see* **Cox, Steven J.; et al., 99k:49005**
Kristensen, Jan On the non-locality of quasiconvexity. (English and French summaries) **99k:49006**
Lachand-Robert, Thomas (*with* Peletier, Mark A.) Minimisation de fonctionnelles dans un ensemble de fonctions convexes. (English and French summaries) [Minimizing functionals on a set of convex functions] **99a:49004**
— (*with* Peletier, Mark A.) Extremal points of a functional on the set of convex functions. (English and French summaries) **99i:49004**
Li, Gongbao *see* **Fuchs, Martin[2]; et al., 99i:49003**
Lopes, Orlando Minimization problems for the exterior domain. (English summary) **99d:49007**
— Variational systems defined by improper integrals. (English summary) **99k:49007**
Martio, Olli *see* **Fuchs, Martin[2]; et al., 99i:49003**
Orsina, Luigi *see* **Boccardo, Lucio, 99k:49003**
Pedregal, Pablo (*with* Šverák, Vladimír) A note on quasiconvexity and rank-one convexity for 2×2 matrices. (English summary) **99i:49005**
Peletier, Mark A. *see* **Lachand-Robert, Thomas, 99a:49004** *and* **99i:49004**
Perrotta, Stefania *see* **Celada, Pietro, 99f:49001** *and* **99i:49002**
Stepanov, E. O. *see* **Drakhlin, Mikhail E., 99h:49001**
Šverák, Vladimír *see* **Pedregal, Pablo, 99i:49005**
Ţevy, I. *see* **Dogaru, Oltin; et al., 99c:49004**
Treu, Giulia An existence result for a class of non-convex problems of the calculus of variations. (English summary) **99g:49004**
— *see also* **Celada, Pietro; et al., 99i:49002**
Udrişte, Constantin *see* **Dogaru, Oltin; et al., 99c:49004**
Uhlig, P. X. *see* **Cox, Steven J.; et al., 99k:49005**
Yang, Yi Min[1] Some properties of arc quasiconvex functions. (Chinese. English and Chinese summaries)
Zhang, Ke Wei[1] On various semiconvex hulls in the calculus of variations. (English summary) **99a:49005**
Zhou, Feng[2] *see* **Hadiji, Rejeb, 99d:49006**

Items with secondary classifications in 49J10

Acanfora, Fausto (*with* Mortola, Stefano) Non-semicontinuous quadratic integral functionals with continuous coefficients. **99j:49019**
Acerbi, Emilio (*with* Fonseca, Irene; Fusco, Nicola) Regularity of minimizers for a class of membrane energies. (English summary) **99j:49078**
Agarwal, Ravi P. (*with* Bohner, Martin) Quadratic functionals for second order matrix equations on time scales. **99f:34040**
Ambrosetti, Antonio Branching points for a class of variational operators. **99m:58049**
André, Nelly (*with* Shafrir, Itai) Minimization of a Ginzburg-Landau type functional with nonvanishing Dirichlet boundary condition. **99k:35161**
Astruc, Thierry Existence of regular solutions for a one-dimensional simplified perfect-plastic problem with a unilateral gradient constraint. (English and French summaries) **99f:73040**
Boccardo, Lucio (*with* Ferone, Vincenzo; Fusco, Nicola; Orsina, Luigi) Regularity of minimizing sequences for functionals of the calculus of variations via the Ekeland principle. **99j:49079**
Bohner, Martin *see* **Agarwal, Ravi P., 99f:34040**
Buttazzo, Giuseppe (*with* Guasoni, Paolo) Shape optimization problems over classes of convex domains. (English summary) **99b:49039**
Carini, Angelo (*with* Genna, Francesco) Some variational formulations for continuum nonlinear dynamics. (English summary) **99h:73091**
Chaâbane, Slim (*with* Jaoua, Mohamed) Dérivation par rapport au domaine pour un problème aux limites avec condition de Signorini. (English and French summaries) [Derivative with respect to the domain for a Signorini boundary value problem] **99k:49086**
Chipot, Michel (*with* Elfanni, Abdellah) On the numerical analysis of some variational problems with nonhomogeneous boundary conditions. (English summary) **99j:49066**
Chowdhury, Mohammad S. R. (*with* Tan, Kok-Keong) Applications of pseudo-monotone operators with some kind of upper semicontinuity in generalized quasi-variational inequalities on non-compact sets. (English summary) **99a:47103**
Cox, Steven J. (*with* McCarthy, C. Maeve) The shape of the tallest column. (English summary) **99k:73090**
D'Asero, S. Integral estimates for the gradients of solutions of local nonlinear variational inequalities with degeneration. (English summary) **99d:49020**
D'Ottavio, Anna (*with* Leonetti, Francesco; Musciano, Chiara) Maximum principle for vector-valued mappings minimizing variational integrals. (English summary) **99f:49024**
Elfanni, Abdellah *see* **Chipot, Michel, 99j:49066**
Evans, Lawrence C. (*with* Gangbo, Wilfrid) Differential equations methods for the Monge-Kantorovich mass transfer problem. (English summary) **99g:35132**
Fan, Xian Ling Regularity of Lagrangians with $\alpha(x)$-growth conditions. (Chinese. English and Chinese summaries) **99e:49051**
Ferone, Vincenzo *see* **Boccardo, Lucio; et al., 99j:49079**
Fonseca, Irene *see* **Acerbi, Emilio; et al., 99j:49078**
Francfort, Gilles (*with* Marigo, J.-J.) Revisiting brittle fracture as an energy minimization problem. (English summary) **99f:73066**
Fuchs, Martin[2] On a class of variational problems related to plasticity with polynomial hardening. (English summary) **99g:73116**
— (*with* Serëgin, G. A.) A regularity theory for variational integrals with $L \ln L$-growth. (English summary) **99i:49046**
Fusco, Nicola *see* **Acerbi, Emilio; et al., 99j:49078** *and* **Boccardo, Lucio; et al., 99j:49079**
Gangbo, Wilfrid *see* **Evans, Lawrence C., 99g:35132**
Genna, Francesco *see* **Carini, Angelo, 99h:73091**

Giannoni, Fabio (*with* Piccione, Paolo; Verderesi, José A.) An approach to the relativistic brachistochrone problem by sub-Riemannian geometry. (English summary) **99a:58038**
Giaquinta, M. Nonlinear elliptic systems. **99i:35029**
Giner, E. On the Clarke subdifferential of an integral functional on L_p, $1 \le p < \infty$. (English summary) **99f:49017**
Guasoni, Paolo *see* **Buttazzo, Giuseppe, 99b:49039**
Jaoua, Mohamed *see* **Chaâbane, Slim, 99k:49086**
Kawohl, Bernd (*with* Lang, Jan) Are some optimal shape problems convex? (English summary) **99a:49046**
Kesavan, Srinivasan Homogenization and optimal control. **99c:35021**
Kim, Inho Relative isoperimetric inequality and linear isoperimetric inequality for minimal submanifolds. (English summary) **99i:49047**
Kristensen, Jan Lower semicontinuity of quasi-convex integrals in BV. (English summary) **99h:49019**
Lang, Jan *see* **Kawohl, Bernd, 99a:49046**
Leonetti, Francesco *see* **D'Ottavio, Anna; et al., 99f:49024**
Lopes, Orlando Variational problems defined by integrals on the entire space and periodic coefficients. **99d:49028**
Marigo, J.-J. *see* **Francfort, Gilles, 99f:73066**
McCarthy, C. Maeve *see* **Cox, Steven J., 99k:73090**
Mielke, Alexander (*with* Sprenger, Pius) Quasiconvexity at the boundary and a simple variational formulation of Agmon's condition. (English summary) **99k:35040**
Mizel, V. J. (*with* Peletier, L. A.; Troy, William C.) Periodic phases in second order materials, and higher order model equations. **99g:73031**
Mortola, Stefano *see* **Acanfora, Fausto, 99j:49019**
Moscariello, Gioconda On weak minima of certain integral functionals. (English summary) **99d:49072**
Mosco, Umberto Self-similarity and the calculus of variations. (English summary) **99h:49057**
Musciano, Chiara *see* **D'Ottavio, Anna; et al., 99f:49024**
Mustonen, Vesa (*with* Tienari, Matti) An eigenvalue problem for generalized Laplacian in Orlicz-Sobolev spaces. (English summary) **99m:35078**
Orsina, Luigi *see* **Boccardo, Lucio; et al., 99j:49079**
Osmolovskiĭ, V. G. Bifurcation of a free surface in phase transition problems in continuum mechanics. (Russian. English and Russian summaries) **99e:73019**
Pallara, Diego Regularity of minimizers of the Mumford-Shah functional. (English summary) **99k:49084**
Pan, Xing Bin (*with* Yi, Yingfei) A variational problem of liquid crystals. (English summary) **99f:76016**
Peletier, L. A. *see* **Mizel, V. J.; et al., 99g:73031**
Piccione, Paolo *see* **Giannoni, Fabio; et al., 99a:58038**
Pokhozhaev, Stanislav Ivanovich On the global fibration method in nonlinear variational problems. (Russian) **99m:35080**
Schoen, Richard M. (*with* Wolfson, Jon G.) Minimizing volume among Lagrangian submanifolds. **99k:53130**
Serëgin, G. A. (*with* Shilkin, T. N.) Regularity of minimizers of some variational problems in plasticity theory. (Russian. English and Russian summaries) **99f:49061**
— *see also* Fuchs, Martin[2], 99i:49046
Shafrir, Itai *see* **André, Nelly, 99k:35161**
Shen, Yao Tian (*with* Yan, Shusen) A singularly perturbed elliptic problem involving supercritical Sobolev exponent. (English summary) **99e:35013**
Shilkin, T. N. *see* **Serëgin, G. A., 99f:49061**
Sprenger, Pius *see* **Mielke, Alexander, 99k:35040**
Sternberg, Peter (*with* Zumbrun, Kevin) Connectivity of phase boundaries in strictly convex domains. (English summary) **99c:49045**
Tan, Kok-Keong *see* **Chowdhury, Mohammad S. R., 99a:47103**
Tienari, Matti *see* **Mustonen, Vesa, 99m:35078**
Troy, William C. *see* **Mizel, V. J.; et al., 99g:73031**
Uderzo, Amos On a generalized differentiability of operators. (English summary) **99d:49036**
Unterreiter, Andreas The thermal equilibrium solution of a generic bipolar quantum hydrodynamic model. (English summary) **99c:58050**
Verderesi, José A. *see* **Giannoni, Fabio; et al., 99a:58038**
Wolfson, Jon G. *see* **Schoen, Richard M., 99k:53130**
Yan, Shusen *see* **Shen, Yao Tian, 99e:35013**
Yi, Yingfei *see* **Pan, Xing Bin, 99f:76016**
Zelikin, M. I. A quadratic system of partial differential equations that is associated with the problem of minimizing a multiple integral. (Russian) **99d:58044**
Zhang, Ke Wei[1] On the structure of quasiconvex hulls. (English summary) **99h:49020**
Zhou, X. P. Weak lower semicontinuity of a functional with any order. **99e:49017**
Zumbrun, Kevin *see* **Sternberg, Peter, 99c:49045**

49J15 Optimal control problems involving ordinary differential equations

Afanas'ev, A. P. A second-order local variational problem for linear optimal control problems with mixed constraints. (Russian. Russian summary) **99c:49005**
Aĭsagaliev, S. A. Optimal control of linear systems with fixed trajectory endpoints and bounded control. (Russian. Russian summary) **99a:49006**
Bell, M. L. (*with* Sargent, R. W. H.; Vinter, R. B.) Existence of optimal controls for continuous time infinite horizon problems. (English summary)
Bonnard, B. Singular trajectories, feedback equivalence and the time optimal control problem. (English summary) (*see* **99b:93001**)
Bonneuil, Noël (*with* Saint-Pierre, Patrick) Domaine de victoire et stratégies viables chez les pêcheurs décrits par l'anthropologue Fredrik Barth. (English and French summaries) [Viable strategies among fishermen analyzed by the anthropologist Fredrik Barth] **99h:49002**
Borisov, V. F. One-parameter families of self-similar solutions of the n-dimensional Fuller problem. (Russian) **99f:49002**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M.; et al., 99m:49001**
Chernous'ko, Feliks Leonidovich (*with* Shmatkov, A. M.) Time-optimal control in a third-order system. (Russian. Russian summary) **99d:49008**
Chikrii, Arkadiĭ A. The problem of evasion for controlled dynamical objects. (Russian. English, Russian and Ukrainian summaries)
Fausz, Jerry L. *see* **Haddad, Wassim M.; et al., 99m:49001**
Grüne, Lars On the relation between discounted and average optimal value functions. (English summary) **99e:49004**
Haddad, Wassim M. (*with* Fausz, Jerry L.; Chellaboina, Vijaya-Sekhar) Nonlinear controllers for nonlinear systems with input nonlinearities. (English summary) **99m:49001**
Idczak, Dariusz Optimal control of a coercive Dirichlet problem. (English summary) **99h:49003**
Ignatov, I. M. (*with* Kurkin, O. M.) A lower bound for transition time in a multidimensional time-optimality problem. (Russian. Russian summary) **99a:49007**
Jurdjevic, V. Optimal control problems on Lie groups: crossroads between geometry and mechanics. (English summary) (*see* **99b:93001**)
Kurkin, O. M. *see* **Ignatov, I. M., 99a:49007**
Minyuk, S. A. On an exact solution of the time-optimality problem in the case of linear time-independent systems with a real spectrum. (Russian. Russian summary) **99d:49009**
Oberle, H. J. (*with* Taubert, K.) Existence and multiple solutions of the minimum-fuel orbit transfer problem. (English summary) **99a:49008**
Pan, Li Ping (*with* Teo, Kok Lay) Near-optimal solutions of a generalized time optimal control problem. (Chinese. Chinese summary) **99k:49008**
Quincampoix, Marc (*with* Vel'ov, Vladimir M.) Viability with a target: theory and applications. (English summary) **99k:49009**
Saint-Pierre, Patrick *see* **Bonneuil, Noël, 99h:49002**
Sargent, R. W. H. *see* **Bell, M. L.; et al.**
Schättler, Heinz Time-optimal feedback control for nonlinear systems: a geometric approach. (English summary) (*see* **99b:93001**)
Shmatkov, A. M. *see* **Chernous'ko, Feliks Leonidovich, 99d:49008**
Sussmann, Héctor J. Some optimal control applications of real-analytic stratifications and desingularization. **99m:49002**
Taubert, K. *see* **Oberle, H. J., 99a:49008**
Teo, Kok Lay *see* **Pan, Li Ping, 99k:49008**
Vel'ov, Vladimir M. *see* **Quincampoix, Marc, 99k:49009**
Vinter, R. B. *see* **Bell, M. L.; et al.**

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Achhab, M. E. (*with* Wertz, V.) On reachable sets for a class of nonlinear systems with constraints. (English summary) **99k:93012**
Aksenyushkina, E. V. The method of needle-shaped linearization in optimal control problems with functional constraints. (Russian)
Al'brekht, È. G. (*with* Ermolenko, E. A.) Synthesis of a time-optimal control in linear systems. (Russian. Russian summary) **99k:49079**
Anan'evskiĭ, I. M. Control of a mechanical system with unknown parameters by a bounded force. (Russian. Russian summary) **99b:70029**
Bardi, Martino (*with* Capuzzo-Dolcetta, Italo) ★ Optimal control and viscosity solutions of Hamilton-Jacobi-Bellman equations. (English summary) **99e:49001**
Bianchini, R. M. Good needle-like variations. (English summary) **99i:49021**
Boldrini, José Luiz (*with* Costa, M. I. S.) The influence of fixed and free final time of treatment on optimal chemotherapeutic protocols. (English summary) **99c:92019**
Bressan, Alberto (*with* Piccoli, Benedetto) A generic classification of time-optimal planar stabilizing feedbacks. (English summary) **99c:93085**
Capuzzo-Dolcetta, Italo *see* **Bardi, Martino, 99e:49001**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M., 99j:93032**
Chen, Ren Zhao (*with* Nie, Hong) A penalty shifting method for calculation of optimal initial controls for a class of parabolic systems. (Chinese. English and Chinese summaries)
Chentsov, A. G. *see* **Morina, S. I., 99c:93004**
Chikrii, Arkadiĭ A. The problem of avoidance for controlled dynamic objects. **99f:90210**
— *see also* Rappoport, I. S., 99k:90229
Costa, M. I. S. *see* **Boldrini, José Luiz, 99c:92019**
Ermolenko, E. A. *see* **Al'brekht, È. G., 99k:49079**
(Falcone, Maurizio) *see* **Bardi, Martino, 99e:49001**
Fiorini, Paolo (*with* Shiller, Zvi) Time-optimal trajectory planning in dynamic environments. (English summary) (*see* **99b:70004**)
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar) Optimal nonlinear-nonquadratic feedback control for systems with L_2 and L_∞ disturbances. **99j:93032**
Khritonenko, N. V. (*with* Yatsenko, Yu. P.) Turnpike theorems in an integral dynamic model of economic restoration. (Russian. English and Ukrainian summaries) **99a:90066**
Kryazhimskiĭ, Arkadiĭ V. (*with* Maksimov, V. I.) An iterative procedure for solving a control problem with phase constraints. (Russian. Russian summary) **99m:49055**
Liu, Xiao Shi A measurable control multiple parameter algorithm and its convergence. (Chinese. Chinese summary)
Maksimov, V. I. *see* **Kryazhimskiĭ, Arkadiĭ V., 99m:49055**
Minyuk, S. A. On an exact solution of the time-optimality problem in the case of linear time-independent systems. (Russian. Russian summary) **99a:49031**
Morina, S. I. (*with* Chentsov, A. G.) Extension of control problems in the class of finitely additive vector measures. (Russian. Russian summary) **99c:93004**
Nie, Hong *see* **Chen, Ren Zhao**
Ovseevich, A. I. On equations of ellipsoids approximating attainable sets. (English summary) **99a:93092**
Pashkov, A. G. *see* **Zemskov, K. A., 99g:90175**
Patsko, V. S. (*with* Turova-Botkina, V. L.) Numerical study of the homicidal chauffeur game. (English summary) (*see* **99d:00026**)
Pełczewski, Jerzy Legendre polynomials method in time-optimal control of linear single-input systems. (English summary) **99e:49036**
Piccoli, Benedetto *see* **Bressan, Alberto, 99c:93085**
Plail, Michael ★ Die Entwicklung der optimalen Steuerungen. (German) [The development of optimal controls] **99k:49001**

Rappoport, I. S. (*with* Chikrii, Arkadii A.) A guaranteed result in a differential game of group pursuit with a terminal payoff function. (Russian. Russian summary) **99k:90229**
Sesekin, A. N. *see* **Zavalishchin, S. T., 99h:34018**
Shiller, Zvi *see* **Fiorini, Paolo, (99b:70004)**
(Soravia, Pierpaolo) *see* **Bardi, Martino, 99e:49001**
Tretyak, A. I. Chronological calculus, high-order necessary conditions for optimality, and perturbation methods. (English summary) **99j:49043**
Turova-Botkina, V. L. *see* **Patsko, V. S., (99d:00026)**
Tzeng, C. Y. Optimal control of a ship for a course-changing maneuver. (English summary) **99a:49045**
Vorotnikov, V. I. On the construction of game-theoretic bounded controls for nonlinear dynamical systems. (Russian. Russian summary) **99d:93047**
Wertz, V. *see* **Achhab, M. E., 99k:93012**
Yatsenko, Yu. P. *see* **Khritonenko, N. V., 99a:90066**
Zavalishchin, S. T. (*with* Sesekin, A. N.) ★ Dynamic impulse systems. (English summary) **99h:34018**
Zaytsev, Oleg On closure of the pre-images of families of mappings. (English summary) **99k:49029**
Zemskov, K. A. (*with* Pashkov, A. G.) Construction of optimal positional strategies in a differential pursuit-evasion game with one pursuer and two evaders. (Russian. Russian summary) **99g:90175**

49J20 Optimal control problems involving partial differential equations

Abel-Hamid, A. H. *see* **Khater, A. H.; et al., 99d:49012**
Adams, David R. (*with* Lenhart, Suzanne; Yong, Jiong Min) Optimal control of the obstacle for an elliptic variational inequality. (English summary) **99h:49004**
Ahmed, N. U. Optimal control of turbulent flow as measure solutions. (English summary) **99m:49003**
Albano, Paolo (*with* Cannarsa, Piermarco) Singularities of the minimum time function for semilinear parabolic systems. (English summary) **99k:49010**
Alekseev, G. V. Solvability of stationary problems of boundary control for thermal convection equations. (Russian. Russian summary) **99i:49006**
Allaire, Grégoire (*with* Francfort, Gilles) Existence of minimizers for non-quasiconvex functionals arising in optimal design. (English and French summaries) **99d:49010**
Allegretto, Walter (*with* Nistri, Paolo) Existence and optimal control for periodic parabolic equations with nonlocal terms. (English summary) **99m:49004**
Arada, N. (*with* Raymond, J.-P.) State-constrained relaxed problems for semilinear elliptic equations. (English summary) **99f:49003**
Bergounioux, Maïtine (*with* Tiba, Dan) Optimal control for the obstacle problem with state constraints. (English summary) **99k:49011**
— (*with* Tröltzsch, Fredi) Optimal control of linear bottleneck problems. (English summary) **99e:49005**
Bubner, Nikolaus (*with* Sprekels, Jürgen) Optimal control of martensitic phase transitions in a deformation-driven experiment on shape memory alloys. (English summary) **99e:49006**
Bucci, Francesca (*with* Pandolfi, Luciano) The value function of the singular quadratic regulator problem with distributed control action. (English summary) **99f:49004**
Cañada, A. (*with* Gámez, J. L.; Montero, J. A.) Uniqueness of the optimal for a nonlinear elliptic control problem arising from population dynamics. (English summary) (*see* **99g:00036**)
— (*with* Gámez, J. L.; Montero, J. A.) Study of an optimal control problem for diffusive nonlinear elliptic equations of logistic type. (English summary) **99m:49005**
Cannarsa, Piermarco *see* **Albano, Paolo, 99k:49010**
Casas Rentería, Eduardo (*with* Kavian, O.; Puel, Jean-Pierre) Optimal control of an ill-posed elliptic semilinear equation with an exponential nonlinearity. (English summary) **99k:49012**
Celada, Pietro Minimum problems on SBV with irregular boundary datum. (English summary) **99f:49005**
Charpentier, Isabelle *see* **Le Dimet, Francois-Xavier, 99h:49006**
Demoulini, Sophia Variational methods for Young measure solutions of nonlinear parabolic evolutions of forward-backward type and of high spatial order. (English summary) **99a:49009**
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Dupuis, Paul (*with* Grenander, Ulf; Miller, Michael I.) Variational problems on flows of diffeomorphisms for image matching. (English summary) **99f:49006**
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— (*with* Marson, Andrea) Scalar non-linear conservation laws with integrable boundary data. **99m:35149**
Benkiran, Taoufiq Étude d'un système de contrôle optimal perturbé non classique. (English and French summaries) [Study of a nonclassical perturbed optimal control system] **99c:49026**
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— Optimal control of problems governed by abstract elliptic variational inequalities with state constraints. (English summary) **99f:49014**
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49J22 Optimal control problems involving integral equations

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49J24 Optimal control problems involving differential inclusions

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Marco Montoro, Luis (*with* Murillo, José Alberto) Viability results for second-order nonautonomous differential inclusions. (Spanish) (*see* **99d:00018**)
— (*with* Murillo, José Alberto) Viability theorems for higher-order differential inclusions. (English summary) **99j:49005**
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Clarke, F. H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Complements, approximations, smoothings and invariance properties. (English summary) **99m:49024**
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Ding, Shi Jin (*with* Liu, Zu Han; Yu, Wanghui) A variational problem related to the Ginzburg-Landau model of superconductivity with normal impurity inclusion. (English summary) **99f:35186**
Donchev, Tzanko Functional-differential inclusions involving dissipative and compact multifunctions. (English summary) **99j:34116**
— (*with* Farkhi, Elza) Stability and Euler approximation of one-sided Lipschitz differential inclusions. (English summary) **99c:34024**
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Truong-Van, Benoit (*with* Truong Xuan Duc Ha) Existence of viable solutions for a nonconvex stochastic differential inclusion. (English summary) **99b:60100**
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49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

Agrawal, Om Prakash (*with* Gregory, John[1]) The complete solution for constrained delay problems in the calculus of variations by unconstrained methods. (English summary) **99d:49016**
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Devdariani, S. Yu. On a problem of the optimal control of the delay structure. (Russian. English and Georgian summaries)
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Spivak, A. K. On the existence of an optimal solution in the problem of the control of some systems with delay. (Russian. Tajiki summary)

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Kowalewski, Adam (*with* Krakowiak, Anna) Time-optimal control of a parabolic system with multiple time-varying lags. (English summary) **99h:49036**
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49J27 Problems in abstract spaces [see 90C48]

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Bonanno, Gabriele On a class of functionals whose local minima are global. (English summary) **99b:49005**
Chentsov, A. G. On the universal asymptotics of admissible sets under relaxation of integral constraints and its representation in the class of finitely additive measures. (Russian) **99c:49006**
Fiacca, Antonella (*with* Papageorgiou, Nikolaos S.; Papalini, Francesca) On the existence of optimal controls for nonlinear infinite-dimensional systems. (English summary) **99g:49005**
Gao, S. C. (*with* Pavel, N. H.) Optimal control of a functional equation associated with closed range selfadjoint operators. (English summary) **99a:49014**
Ioffe, Alexandre D. (*with* Tikhomirov, Vladimir) Some remarks on variational principles. (Russian) **99d:49017**
Nistri, Paolo (*with* Obukhovskiĭ, V. V.; Zecca, Pietro) Viability for feedback control systems in Banach spaces via Caratheodory closed-loop controls. (English summary) **99h:49008**
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Pu, Zhi Lin Existence of optimal controls for nonlinear evolution systems and their application. (Chinese. English and Chinese summaries)
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Borisovich, Yu. G. Global analysis of operator equations that arise in singular optimization problems. (Russian) **99d:58051**
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Branicky, Michael S. (*with* Borkar, Vivek S.; Mitter, Sanjoy K.) A unified framework for hybrid control: model and optimal control theory. (English summary) **99a:93007**
Chen, Guang Ya (*with* Huang, Xue Xiang) A unified approach to the existing three types of variational principles for vector valued functions. (English summary) **99m:90122**
Corvellec, Jean-Noël Remarks on critical point theory. (English summary) **99b:58050**
Drakhlin, Mikhail E. (*with* Stepanov, E. O.) Convergence of composition operators and optimal control problems. **99k:47064**
Dymkov, M. P. Existence and structure of the optimal solution of a quadratic optimization problem in linear 2-D control systems. (Russian. English and Russian summaries) **99f:49056**
Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) Optimal control problems for a class of nonlinear equations with an application to control of fluids. **99f:49008**
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49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)

Borisov, V. F. Singular extremals of order 3 and chattering. (English summary) **99j:49008**
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49J35 Minimax problems

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Chinni, Antonia A two-function minimax theorem. **99g:49006**
Chowdhury, Mohammad S. R. (*with* Tan, Kok-Keong) New minimax inequalities and applications. (English summary) **99d:49018**
Forgó, Ferenc (*with* Joó, István) A general nontopological two-function minimax theorem. (English summary) **99j:49010**
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49J40 Variational methods including variational inequalities

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Miettinen, Markku (*with* Panagiotopoulos, Panagiotis D.) Hysteresis and hemivariational inequalities: semilinear case. (English summary) **99i:49017**
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49J55 Problems involving randomness [see also 93E20]

Bassanezi, Rodney C. *see* **Rojas Medar, Marko A.; et al., 99m:49033**
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49J99 None of the above, but in this section

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Giga, Yoshikazu (*with* Gurtin, Morton E.; Matias, José) On the dynamics of crystalline motions. (English summary) **99h:73008**
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49Kxx Necessary conditions and sufficient conditions for optimality

49K05 Free problems in one independent variable

Brandão, Adilson J. V. *see* **Rojas Medar, Marko A.; et al., 99j:49031**
Dacorogna, Bernard (*with* Došlý, Ondřej) Convexity of certain integrals of the calculus of variations. III. (Italian summary) **99a:49027**
Došlý, Ondřej *see* **Dacorogna, Bernard, 99a:49027**
Janković, Vladimir Necessary conditions for an extremum in the calculus of variations in the absence of smoothness in the phase variables. (Russian. Russian summary) **99f:49023**
Muñoz, Julio (*with* Pedregal, Pablo) On one-dimensional degenerate convex variational problems. (Spanish) (*see* **99d:00018**)
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Rapcsák, Tamás (*with* Vásárhelyiné Szabó, Anna) On a relation between problems of calculus of variations and mathematical programming. (English summary) (*see* **99f:90007**)
Rojas Medar, Marko A. (*with* Brandão, Adilson J. V.; Silva, Geraldo Nunes) Nonsmooth continuous-time optimization problems: sufficient conditions. (English summary) **99j:49031**
Silva, Geraldo Nunes *see* **Rojas Medar, Marko A.; et al., 99j:49031**
Vásárhelyiné Szabó, Anna *see* **Rapcsák, Tamás, (99f:90007)**

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Giannessi, Franco (*with* Uderzo, Amos) A multifunction approach to extremum problems having infinite-dimensional image. I. Composition and selection. (English summary) **99i:49001**
Krener, Arthur J. (*with* Nikitin, S. V.) Generalized isoperimetric problem. (English summary) **99k:49047**
Młynarska, Elżbieta Sufficient optimality conditions and the dual dynamic programming for the calculus of variations. (English summary) **99f:49042**
Nikitin, S. V. *see* **Krener, Arthur J., 99k:49047**
Ramm, Alexander G. Inequalities for brachistochrone. (English summary)
Uderzo, Amos *see* **Giannessi, Franco, 99i:49001**

49K10 Free problems in two or more independent variables

Cellina, Arrigo (*with* Perrotta, Stefania) On the validity of the maximum principle and of the Euler-Lagrange equation for a minimum problem depending on the gradient. (English summary) **99g:49018**
D'Ottavio, Anna (*with* Leonetti, Francesco; Musciano, Chiara) Maximum principle for vector-valued mappings minimizing variational integrals. (English summary) **99f:49024**
Ferone, Vincenzo (*with* Mercaldo, Anna) A second order derivation formula for functions defined by integrals. (English and French summaries) **99g:49019**
Larsen, Christopher J. A new proof of regularity for two-shaded image segmentations. (English summary) **99e:49022**
Leonetti, Francesco *see* **D'Ottavio, Anna; et al., 99f:49024**
Maddocks, John H. *see* **Manning, Robert S.; et al., 99j:49032**
Manning, Robert S. (*with* Rogers, Kathleen A.; Maddocks, John H.) Isoperimetric conjugate points with application to the stability of DNA minicircles. (English summary) **99j:49032**
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Gérard, Patrick Description du défaut de compacité de l'injection de Sobolev. (French summary) [Description of the lack of compactness of a Sobolev embedding] **99h:46051**
Jimbo, Shuichi (*with* Morita, Yoshihisa) Ginzburg-Landau equation with a variable coefficient in a disk. **99j:35202**
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Lachand-Robert, Thomas (*with* Peletier, Mark A.) Extremal points of a functional on the set of convex functions. (English and French summaries) **99i:49004**
Morita, Yoshihisa *see* **Jimbo, Shuichi, 99j:35202**
Morozan, T. Parametrized Riccati equations for controlled linear differential systems with jump Markov perturbations. (English summary) **99d:93064**
Pedregal, Pablo (*with* Šverák, Vladimír) A note on quasiconvexity and rank-one convexity for 2×2 matrices. (English summary) **99i:49005**
Peletier, Mark A. *see* **Lachand-Robert, Thomas, 99i:49004**
Rosenblueth, Javier F. Variational conditions for the Lagrange problem with linear dynamics. (English summary) **99k:49048**
— Sufficiency and conjugate points for the Lagrange problem with linear dynamics. (English summary) **99k:49049**
— Jacobi's conditions for the Lagrange problem with linear dynamics. (English summary) **99k:49050**
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49K15 Problems involving ordinary differential equations

Agrachev, Andrei (*with* Stefani, Gianna; Zezza, Pierluigi) An invariant second variation in optimal control. (English summary) **99k:49040**
— (*with* Sarychev, Andrei V.) On abnormal extremals for Lagrange variational problems. **99k:49041**
— (*with* Stefani, Gianna; Zezza, Pierluigi) A Hamiltonian approach to strong minima in optimal control. (English summary) **99i:49020**
Agrawal, S. K. (*with* Faiz, N.) Optimization of a class of nonlinear dynamic systems: new efficient method without Lagrange multipliers. (English summary) **99a:49028**
Aksenyushkina, E. V. The method of needle-shaped linearization in optimal control problems with functional constraints. (Russian)
Al'brekht, È. G. (*with* Ermolenko, E. A.) On the optimal control of a second-order quasilinear system. (Russian. Russian summary)
Barbashina, E. E. Optimality conditions of Kelly-Kopp-Moyer type. (Russian. Russian summary) **99m:49035**
Barron, E. N. (*with* Jensen, Robert R.; Liu, Wenxiong) The L^∞ control problem with continuous control functions. **99a:49029**
Bianchini, R. M. Good needle-like variations. (English summary) **99i:49021**
Bloch, Anthony M. (*with* Crouch, Peter E.) Optimal control, optimization, and analytical mechanics. (English summary) **99k:49042**
Boltyanskii, Vladimir Grigor'evich (*with* Gorelikova, S.) Optimal synthesis for nonoscillatory controlled objects. (English summary) **99f:49025**
Cairns, Robert D. Sufficient conditions for a class of investment problems. (English summary) **99j:49033**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) On the behaviour of the value function of a Mayer optimal control problem along optimal trajectories. (English summary) **99g:49020**
Caputo, M. R. Economic characterization of reciprocal isoperimetric control problems. (English summary) **99e:49023**
Chen, Xi (*with* Zhou, Xun Yu) Deterministic near-optimal controls with state constraints. (English summary) **99k:49043**
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Liu, Xianxing (*with* Wen, Chenglin) Constitution of Hamiltonian function and solution of optimal control of a sort of performance index. (English summary)
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Minyuk, S. A. On an exact solution of the time-optimality problem in the case of linear time-independent systems. (Russian. Russian summary) **99a:49031**
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Rosenblueth, Javier F. Variational conditions for the Lagrange problem with linear dynamics. (English summary) **99k:49048**
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— Jacobi's conditions for the Lagrange problem with linear dynamics. (English summary) **99k:49050**
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Shakhverdyan, S. V. (*with* Shakhverdyan, A. S.) Necessary conditions for optimality for systems with constraints on the complete change of control. (Russian. Armenian summary)
Stefani, Gianna *see* **Agrachev, Andrei; et al., 99i:49020** *and* **99k:49040**
Sussmann, Héctor J. An introduction to the coordinate-free maximum principle. (English summary) (*see* **99b:93001**)
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Vasilieva, Olga Generalization of the maximum principle for control problems with boundary conditions. (English summary)
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Arutyunov, A. V. ★ Условия экстремума. (Russian. Russian summary) [Extremum conditions] **99c:49001**
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Baranovskaya, L. V. *see* **Chikrii, Arkadii A.; et al., 99f:90205**
Bardi, Martino (*with* Capuzzo-Dolcetta, Italo) ★ Optimal control and viscosity solutions of Hamilton-Jacobi-Bellman equations. (English summary) **99e:49001**
Bartoszewicz, Andrzej A nonlinear time-varying switching line for finite time regulation of second order systems. (English summary)
Bonnard, B. (*with* Launay, G.) Time minimal control of batch reactors. (English summary) **99j:49077**
Borisov, V. F. One-parameter families of self-similar solutions of the n-dimensional Fuller problem. (Russian) **99f:49002**
Cannon, M. (*with* Kouvaritakis, B.) Fast suboptimal predictive control with guaranteed stability. (English summary) **99e:93085**
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Grüne, Lars On the relation between discounted and average optimal value functions. (English summary) **99e:49004**
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— (*with* Prishchepova, S. V.) A finite algorithm for solving an optimal control problem with phase constraints at discrete moments of time. (Russian. Russian summary) **99d:49055**
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Lin, Zong Chi (*with* Zhou, Zhe Yan) Application of diagonalization techniques to optimal control of quasilinear singular perturbation systems. (Chinese. English and Chinese summaries) **99g:49028**
Malanowski, Kazimierz Application of the classical implicit function theorem in sensitivity analysis of parametric optimal control. (English summary) **99k:49065**
Minchenko, O. Yu. (*with* Zhivitskaya, E. N.) On the sensitivity of discrete control systems to perturbations of the parameters. (Russian. English and Russian summaries) **99a:49037**
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Poliquin, R. A. *see* **Levy, Adam B., 99b:49025**
Schwartzman, E. *see* **Ioffe, Alexandre D., 99i:49027**
Serovaĭskiĭ, S. Ya. Optimal control of a nonlinear singular system with a fixed terminal state. (Russian. Russian summary)
Siddiqi, A. H. (*with* Ahmad, Rais; Khan, Mohammad Firdosh) Sensitivity analysis of generalized multivalued variational inequalities. (English summary)
Slavov, Iordan The optimal value of singularly perturbed Mayer's problem is Hölderian. (English summary) **99j:49057**
Sobolev, V. A. *see* **Zharikova, E. N., 99b:49026**
Weber, Gerhard-W. On the topology of parametric optimal control. (English summary) **99c:49028**
Wei, Yi Min *see* **Chen, Guo Liang**[1]
Zharikova, E. N. (*with* Sobolev, V. A.) Optimal periodic control systems with singular perturbations. (Russian. Russian summary) **99b:49026**
Zhivitskaya, E. N. *see* **Minchenko, O. Yu., 99a:49037**
Zhou, Zhe Yan *see* **Lin, Zong Chi, 99g:49028**

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Albano, Paolo (*with* Cannarsa, Piermarco) Singularities of the minimum time function for semilinear parabolic systems. (English summary) **99k:49010**
Al'brekht, È. G. (*with* Ermolenko, E. A.) On the optimal control of a second-order quasilinear system. (Russian. Russian summary)
Andreeva, I. Yu. (*with* Sesekin, A. N.) A degenerate linear-quadratic optimization problem with time delay. (Russian. Russian summary) **99e:49044**
Askri, K. (*with* Le Van, C.) Differentiability of the value function of nonclassical optimal growth models. (English summary) **99i:90027**
Banaszuk, Andrzej (*with* Przyłuski, K. Maciej) On perturbations of controllable implicit linear systems. (English summary) **99k:93015**
Bonnans, J. Frédéric (*with* Shapiro, Alexander) Optimization problems with perturbations: a guided tour. (English summary) **99i:90095**
Bucci, Francesca (*with* Pandolfi, Luciano) The value function of the singular quadratic regulator problem with distributed control action. (English summary) **99f:49004**
Cannarsa, Piermarco *see* **Albano, Paolo, 99k:49010**
Dokov, S. P. (*with* Dontchev, Asen L.) Robinson's strong regularity implies robust local convergence of Newton's method. (English summary) **99e:90099**
Dontchev, Asen L. (*with* Rockafellar, R. T.) Characterizations of Lipschitzian stability in nonlinear programming. (English summary) **99b:90130**
— *see also* **Dokov, S. P., 99e:90099**
Ermolenko, E. A. *see* **Al'brekht, È. G.**
Fei, Pusheng *see* **Gong, Liu Tang, 99m:49008**
Finzel, Martina (*with* Li, Wu[3]) Uniform Lipschitz continuity of best l_p-approximations by polyhedral sets. (English summary) **99k:41043**
Gong, Liu Tang (*with* Fei, Pusheng) Local and global stability of infinite-horizon variational problem. (English summary) **99m:49008**
Gwinner, Joachim On variational minimax problems under relaxed coercivity assumptions. (English summary) **99g:49007**
Hilout, S. Directional Lipschitzian optimal solution of infinite-dimensional optimization problems. (English summary) **99g:90140**
Ignatov, I. M. (*with* Kurkin, O. M.) A lower bound for transition time in a multidimensional time-optimality problem. (Russian. Russian summary) **99a:49007**
Jia, Fuchen (*with* Yang, Fengmei; Wang, Shou Yang) Sensitivity analysis in bilevel linear programming. (English summary) **99i:90096**
Kogut, P. I. Variational S-convergence of minimization problems. II. Topological properties of S-limits. (Russian. English, Russian and Ukrainian summaries)
Kurkin, O. M. *see* **Ignatov, I. M., 99a:49007**
Le Van, C. *see* **Askri, K., 99i:90027**
Li, Chong[1] (*with* Wang, Xing Hua) Lipschitz continuity of best approximations and Chebyshev centers. (English summary) **99d:41045**
Li, Gao Ming A note on the convergence of sequences of sets. (Chinese. English and Chinese summaries)
Li, Wu[3] (*with* Singer, Ivan) Global error bounds for convex multifunctions and applications. (English summary) **99i:90097**
— *see also* **Finzel, Martina, 99k:41043**
Minchenko, Leonid I. (*with* Sakolchik, P. P.) Epiderivatives of marginal functions in nonlinear programming problems. (Belorussian. English and Russian summaries)
Narmanov, A. Yu. On the dependence of the controllability set on the target point. (Russian. Russian summary) **99k:93013**
Nowak, Andrzej S. Normal fields of functionals and optimal measurable sections. (English summary) **99e:49054**
Pandolfi, Luciano *see* **Bucci, Francesca, 99f:49004**
Poliquin, R. A. (*with* Rockafellar, R. T.) Proto-derivatives of partial subgradient mappings. (English summary) **99h:49025**
— (*with* Rockafellar, R. T.) Tilt stability of a local minimum. (English summary) **99e:90100**
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Pühl, Heidrun Convexity and openness with linear rate. (English summary) **99h:49026**
Quincampoix, Marc Singular perturbations for differential equations and inclusions: an approach through constrained systems. **99a:34158**
Rhode, Anne Katharina ★ Rotationssymmetrische Flächen konstanter mittlerer Krümmung in zwei konzentrischen Kreisen. (German) [Rotation-symmetric surfaces of constant mean curvature in two concentric circles] **99m:53017**
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Sesekin, A. N. *see* **Andreeva, I. Yu., 99e:49044**
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Yang, Fengmei *see* **Jia, Fuchen; et al., 99i:90096**
Zaika, Yu. V. Estimates for functionals on solutions of perturbed systems with delay. (Russian. English and Russian summaries) (*see* **99a:00014**)

49K45 Problems involving randomness [see also 93E20]

Arkin, Vadim I. Stochastic optimization approach to dynamic problems with jump changing structure. **99h:49039**
Azé, Dominique (*with* Michel, Laurence) Computable dual characterizations of asymptotically well-behaved convex functions. **99m:49041**
Bagagiolo, Fabio (*with* Bardi, Martino) Singular perturbation of a finite horizon problem with state-space constraints. (English summary) **99h:49040**
Bardi, Martino *see* **Bagagiolo, Fabio, 99h:49040**
Borkar, Vivek S. Convexity in stochastic control. (English summary) **99m:49042**
Chen, Shuping (*with* Li, Xunjing; Zhou, Xun Yu) Stochastic linear quadratic regulators with indefinite control weight costs. (English summary) **99e:49028**
Dai Pra, Paolo (*with* Meneghini, L.; Runggaldier, Wolfgang J.) Explicit solutions for multivariate, discrete-time control problems under uncertainty. (English summary) **99e:49029**
Davis, Mark H. A. (*with* Zervos, M.) A pair of explicitly solvable singular stochastic control problems. (English summary) **99i:49028**
Dunyak, James P. (*with* Freidlin, Mark I.) Optimal residence time control of Hamiltonian systems perturbed by white noise. (English summary) **99d:49049**
Freidlin, Mark I. *see* **Dunyak, James P., 99d:49049**
Fritsch, H. Suboptimality in a stochastic control problem. (English summary) **99h:49041**
Kabanov, Yu. M. On the Pontryagin maximum principle for SDEs with a Poisson-type driving noise. (English summary) **99j:49058**
Kazakov, I. E. On the problem of the local synthesis of a quasi-optimal control in a stochastic nonlinear dynamical system. (Russian. Russian summary) **99k:49066**
Li, Xunjing *see* **Chen, Shuping; et al., 99e:49028**
Lominashvili, G. The approximation to the value function of the optimal stopping problem of multidimensional Brownian motion by discretized variational inequalities. (English summary)
Meneghini, L. *see* **Dai Pra, Paolo; et al., 99e:49029**
Michel, Laurence *see* **Azé, Dominique, 99m:49041**
Peng, Shige (*with* Wu, Zhen) Fully coupled forward-backward stochastic differential equations and applications to optimal control. (English summary) **99m:49043**
Pogorelov, V. A. *see* **Sokolov, S. V.**
Runggaldier, Wolfgang J. *see* **Dai Pra, Paolo; et al., 99e:49029**
Sokolov, S. V. Optimal control based on nonlinear probabilistic criteria. (Russian. English, Russian and Ukrainian summaries)
— (*with* Pogorelov, V. A.) A posteriori synthesis of the optimal control of nonlinear stochastic structures. (Russian. English, Russian and Ukrainian summaries)

Tang, Shanjian The maximum principle for partially observed optimal control of stochastic differential equations. (English summary) **99f:49040**
Wu, Zhen Maximum principle for optimal control problem of fully coupled forward-backward stochastic systems. (English summary) **99i:49029**
— *see also* **Peng, Shige**, **99m:49043**
Xu, Wen Sheng Maximum principle for a stochastic optimal control problem and application to portfolio/consumption choice. (English summary) **99e:49030**
Zervos, M. *see* **Davis, Mark H. A.**, **99i:49028**
Zhou, Xun Yu Stochastic near-optimal controls: necessary and sufficient conditions for near-optimality. (English summary) **99d:49050**
— *see also* **Chen, Shuping; et al.**, **99e:49028**

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Barles, Guy (*with* Rouy, E.) A strong comparison result for the Bellman equation arising in stochastic exit time control problems and its applications. **99i:49030**
Bensoussan, Alain (*with* Răşcanu, Aurel) Large time behaviour for parabolic stochastic variational inequalities. (English summary) **99c:60125**
Borkar, Vivek S. Ergodic control of partially observed Markov chains. (English summary) **99f:93140**
Bosov, A. V. (*with* Pankov, A. R.) Control algorithms for discrete systems of random structure. (Russian. Russian summary) **99i:93070**
Campi, M. C. (*with* Kumar, Panganamala Ramana) Adaptive linear quadratic Gaussian control: the cost-biased approach revisited. (English summary) **99f:93141**
Chikunova, E. V. *see* **Dombrovskiĭ, V. V.**, **99k:93095**
Czornik, Adam Optimal control for a nonstationary linear system with a quadratic cost functional. (Polish) **99a:93110**
Dombrovskiĭ, V. V. (*with* Chikunova, E. V.) Synthesis of dynamic controllers of reduced order for systems with random parameters. (Russian. Russian summary) **99k:93095**
Fujita, Yasuhiro (*with* Morimoto, Hiroaki) On Bellman equations in quadratic ergodic control with controller constraints. (English summary) **99i:49031**
Hohzaki, Ryusuke (*with* Iida, Koji; Kiyama, Masaki) Randomized look strategy for a moving target when a search path is given. (English summary) **99k:90093**
Iida, Koji *see* **Hohzaki, Ryusuke; et al.**, **99k:90093**
Irle, Albrecht Minimax results and randomization for certain stochastic games. (English summary) **99j:90127**
Karrakchou, Jamila *see* **Rachik, Mostafa**, **99k:93097**
Kashinov, V. V. On the set of particular necessary conditions for optimality in discontinuous problems of nonstationary filtering. (Russian. Russian summary)
Kiyama, Masaki *see* **Hohzaki, Ryusuke; et al.**, **99k:90093**
Kumar, Panganamala Ramana *see* **Campi, M. C.**, **99f:93141**
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Liu, Kun Hui *see* **Sun, Shi Liang**
Morimoto, Hiroaki *see* **Fujita, Yasuhiro**, **99i:49031**
Ohsumi, Akira Recent topics in stochastic control theory. (Japanese)
Pankov, A. R. *see* **Bosov, A. V.**, **99i:93070**
Pham, Huyên Optimal stopping of controlled jump diffusion processes: a viscosity solution approach. (English summary) **99h:49043**
Rachik, Mostafa (*with* Karrakchou, Jamila) Optimal control of distributed stochastic systems with delays in the control. (English summary) **99k:93097**
Rampazzo, Franco (*with* Sartori, C.) The minimum time function with unbounded controls. (English summary) **99h:49044**
Răşcanu, Aurel *see* **Bensoussan, Alain**, **99c:60125**
Rouy, E. *see* **Barles, Guy**, **99i:49030**
Runggaldier, Wolfgang J. Concepts and methods for discrete and continuous time control under uncertainty. (English summary) **99b:93052**
Rüschendorf, Ludger (*with* Uckelmann, Ludger) On optimal multivariate couplings. (English summary) **99a:90234**
Sartori, C. *see* **Rampazzo, Franco**, **99h:49044**
Sritharan, S. S. An introduction to deterministic and stochastic control of viscous flow. **99h:49007**
Sun, Shi Liang (*with* Liu, Kun Hui) A class of stationary optimal stochastic controls of impulse type. (Chinese. English and Chinese summaries)
Tardelli, P. An approximation of stochastic control problems for jump processes. (Italian summary) **99i:93065**
Todd, Michael J. Erratum: "Probabilistic models for linear programming" [Math. Oper. Res. **16** (1991), no. 4, 671–693; MR 93a:90042]. **99h:90066**
Uckelmann, Ludger *see* **Rüschendorf, Ludger**, **99a:90234**
Valeev, K. G. (*with* Lapshin, A. L.) Optimizations of solutions of a linear control system. (Russian. English and Ukrainian summaries)
Verma, Ram U. R-KKM theorems and their applications to minimax inequalities. (English summary)
— R-KKM selections applied to minimax inequalities. (English summary)
Weerasinghe, Ananda P. N. Singular optimal strategies for investment with transaction costs. (English summary) **99j:90018**

49K99 None of the above, but in this section

Items with secondary classifications in 49K99

Sun, Wen Yu Optimality conditions for LC^1 optimization problems. (Chinese. English summary) **99k:90163**

49Lxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

49L05 Free problems and problems involving ordinary differential equations

Items with secondary classifications in 49L05

(Chibisov, D. M.) *see* **Milyutin, Alekseĭ A.**, **99g:49002**
Milyutin, Alekseĭ A. (*with* Osmolovskiĭ, Nikolai P.) ★ Calculus of variations and optimal control. (English summary) **99g:49002**
Osmolovskiĭ, Nikolai P. *see* **Milyutin, Alekseĭ A.**, **99g:49002**

49L10 Free problems and problems involving partial differential equations

Items with secondary classifications in 49L10

Barron, E. N. (*with* Jensen, Robert R.; Liu, Wenxiong) Applications of the Hopf-Lax formula for $u_t + H(u, Du) = 0$. (English summary) **99a:35024**
Clarke, F. H. (*with* Hiriart-Urruty, Jean-Baptiste; Ledyaev, Yu. S.) On global optimality conditions for nonlinear optimal control problems. (English summary) **99j:49035**
Hiriart-Urruty, Jean-Baptiste *see* **Clarke, F. H.; et al.**, **99j:49035**
Jensen, Robert R. *see* **Barron, E. N.; et al.**, **99a:35024**
Ledyaev, Yu. S. *see* **Clarke, F. H.; et al.**, **99j:49035**
Liu, Wenxiong *see* **Barron, E. N.; et al.**, **99a:35024**

49L20 Dynamic programming method

Barles, Guy (*with* Rouy, E.) A strong comparison result for the Bellman equation arising in stochastic exit time control problems and its applications. **99i:49030**
Beard, Randal W. (*with* McLain, Timothy W.) Successive Galerkin approximation algorithms for nonlinear optimal and robust control. (English summary) **99j:49059**
— (*with* Saridis, George N.; Wen, John T.) Approximate solutions to the time-invariant Hamilton-Jacobi-Bellman equation. (English summary) **99d:49051**
Belbas, S. A. Multi-time dynamic programming and Riccati equations. (English summary) **99e:49031**
Da Prato, Giuseppe (*with* Zabczyk, Jerzy) Differentiability of the Feynman-Kac semigroup and a control application. (English and Italian summaries) **99f:49041**
Davideanu, Cătălina Hamilton-Jacobi equation related to a control problem. (English summary)
Fujita, Yasuhiro (*with* Morimoto, Hiroaki) On Bellman equations in quadratic ergodic control with controller constraints. (English summary) **99i:49031**
Garashchenko, F. G. (*with* Pichkur, V. V.) Structural optimization of dynamical systems on the basis of the generalized Bellman principle. (Russian. English, Russian and Ukrainian summaries) **99j:49060**
Jarski, Michał Active dynamic programming—breaking the dimension barrier. (English summary)
Liu, Guo Zhi A dynamic optimization method for dynamic input-output problems. (Chinese. English and Chinese summaries)
Liu, Tsong-Zen *see* **Yen, Vincent C.**
McLain, Timothy W. *see* **Beard, Randal W.**, **99j:49059**
Młynarska, Elżbieta Sufficient optimality conditions and the dual dynamic programming for the calculus of variations. (English summary) **99f:49042**
Morimoto, Hiroaki *see* **Fujita, Yasuhiro**, **99i:49031**
Pichkur, V. V. *see* **Garashchenko, F. G.**, **99j:49060**
Rouy, E. *see* **Barles, Guy**, **99i:49030**
Rugh, Wilson J. *see* **Tan, Hualin**, **99j:49061**
Saridis, George N. *see* **Beard, Randal W.; et al.**, **99d:49051**
Song, Wen Zhong *see* **Yu, Xin-Zhen**
Tan, Hualin (*with* Rugh, Wilson J.) Nonlinear overtaking optimal control: sufficiency, stability, and approximation. (English summary) **99j:49061**
Wen, John T. *see* **Beard, Randal W.; et al.**, **99d:49051**
Wolenski, Peter R. (*with* Zhuang, Yu[2]) Proximal analysis and the minimal time function. (English summary) **99i:49032**
Ye, Jane Juan-Juan (*with* Zhu, Qiji J.) Hamilton-Jacobi theory for a generalized optimal stopping time problem. **99f:49043**
Yen, Vincent C. (*with* Liu, Tsong-Zen) An inverse dynamics-based dynamic programming method for optimal control problems of linear systems. (English summary)
Yu, Xin-Zhen (*with* Song, Wen Zhong) Further properties of optimal hedging points in a class of manufacturing systems. (English summary)
Zabczyk, Jerzy *see* **Da Prato, Giuseppe**, **99f:49041**
Zhu, Qiji J. *see* **Ye, Jane Juan-Juan**, **99f:49043**
Zhuang, Yu[2] *see* **Wolenski, Peter R.**, **99i:49032**

Items with secondary classifications in 49L20

Aliakbarov, S. M. (*with* Vasil'ev, F. P.; Mukhamadiev, È. M.) Justification of the dynamic programming method for problems of standardization type. (Russian. Russian summary) **99c:90153**
Alvarez, Fernando (*with* Stokey, Nancy L.) Dynamic programming with homogeneous functions. (English summary) **99m:90155**
Arisawa, Mariko (*with* Tourin, Agnès) Regularizing effects for a class of first-order Hamilton-Jacobi equations. **99b:35020**
Bardi, Martino (*with* Faggian, Silvia) Hopf-type estimates and formulas for nonconvex nonconcave Hamilton-Jacobi equations. (English summary) **99e:35023**
Bar-on, Jonathan R. *see* **Grasse, Kevin A.**, **99i:49026**
Beard, Randal W. (*with* Saridis, George N.; Wen, John T.) Galerkin approximations of the generalized Hamilton-Jacobi-Bellman equation. (English summary) **99b:65077**
Belbas, S. A. (*with* Mayergoyz, I. D.) Optimal control of discrete-time approximations to systems with hysteresis. (English summary) (*see* **99d:00026**)
Bertsekas, Dimitri P. A new value iteration method for the average cost dynamic programming problem. (English summary) **99d:90136**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) On the behaviour of the value function of a Mayer optimal control problem along optimal trajectories. (English summary) **99g:49020**
Davideanu, Cătălina A bilinear control problem solved by the fractional step scheme. (English summary) **99j:49051**

Dey, Subhrakanti *see* **Moore, John Barratt; et al., 99h:93113**
Díaz Díaz, Gregorio (*with* Rey, José María) Long-time behavior in some Hamilton-Jacobi equations. (Spanish) (*see* **99g:00036**)
Dokuchaev, N. G. Control of Cordes-type diffusion with incomplete observation and in a game-theoretic problem. (Russian. Russian summary) **99k:93094**
Elliott, Robert J. *see* **Moore, John Barratt; et al., 99h:93113**
Faggian, Silvia *see* **Bardi, Martino, 99e:35023**
Grasse, Kevin A. (*with* Bar-on, Jonathan R.) Regularity of the value function for constrained optimization problems. (English summary) **99i:49026**
Huang, Wen Qi *see* **Yao, Huan Min; et al.**
Inoue, Kazuo *see* **Kawata, Masakatsu; et al.**
Kaise, Hidehiro (*with* Nagai, Hideo) Bellman-Isaacs equations of ergodic type related to risk-sensitive control and their singular limits. (English summary) **99b:93050**
Kawata, Masakatsu (*with* Shimazu, Naomitsu; Inoue, Kazuo) An approximate realization of nonlinear $\mathscr{H}_\infty$ control based on the Hamilton-Jacobi equation. (Japanese. English summary)
Kurano, Masami (*with* Yasuda, Masami; Nakagami, Jun-ichi; Yoshida, Yuji) A fuzzy relational equation in dynamic fuzzy systems. (English summary)
Liu, Xianxing (*with* Wen, Chenglin) Constitution of Hamiltonian function and solution of optimal control of a sort of performance index. (English summary)
Maslov, V. P. On basis elements in idempotent subspaces. (Russian) **99i:46037**
Mayergoyz, I. D. *see* **Belbas, S. A., (99d:00026)**
Mel'nikova, N. V. (*with* Taras'ev, A. M.) Synthesis of optimal guaranteed control in grid approximation schemes. (Russian. Russian summary) **99d:49067**
Moore, John Barratt (*with* Elliott, Robert J.; Dey, Subhrakanti) Risk-sensitive generalizations of minimum variance estimation and control. (English summary) **99h:93113**
Motta, Monica (*with* Rampazzo, Franco) The value function of a slow growth control problem with state constraints. (English summary) **99j:49063**
Mukhamadiev, È. M. *see* **Aliakbarov, S. M.; et al., 99c:90153**
Nagai, Hideo *see* **Kaise, Hidehiro, 99b:93050**
Nakagami, Jun-ichi *see* **Kurano, Masami; et al.**
Nazarov, Fedor (*with* Treĭl', S. R.) The hunt for a Bellman function: applications to estimates for singular integral operators and to other classical problems of harmonic analysis. (Russian. Russian summary) **99d:42026**
Rampazzo, Franco Differential games with unbounded versus bounded controls. (English summary) **99f:90208**
— *see also* **Motta, Monica, 99j:49063**
Rey, José María *see* **Díaz Díaz, Gregorio, (99g:00036)**
Saridis, George N. *see* **Beard, Randal W.; et al., 99b:65077**
Schäl, Manfred On piecewise deterministic Markov control processes: control of jumps and of risk processes in insurance. (English summary) **99c:93115**
Schochetman, Irwin E. (*with* Smith, Robert L.) Existence and discovery of average optimal solutions in deterministic infinite horizon optimization. (English summary) **99d:90140**
Shimazu, Naomitsu *see* **Kawata, Masakatsu; et al.**
Smith, Robert L. *see* **Schochetman, Irwin E., 99d:90140**
Stokey, Nancy L. *see* **Alvarez, Fernando, 99m:90155**
Subbotina, N. N. Asymptotic properties of minimax solutions of Isaacs-Bellman equations in differential games with fast and slow motions. (Russian. Russian summary) **99f:90209**
Taras'ev, A. M. *see* **Mel'nikova, N. V., 99d:49067**
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Tourin, Agnès *see* **Arisawa, Mariko, 99b:35020**
Treĭl', S. R. *see* **Nazarov, Fedor, 99d:42026**
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Wen, John T. *see* **Beard, Randal W.; et al., 99b:65077**
Yao, Huan Min (*with* Huang, Wen Qi; Wang, Sheng Hai) Runge-Kutta type TVB time discretizations for Hamilton-Jacobi equations. (Chinese. English and Chinese summaries)
Yasuda, Masami *see* **Kurano, Masami; et al.**
Yoshida, Yuji *see* **Kurano, Masami; et al.**
Zagatti, Sandro On the Dirichlet problem for vectorial Hamilton-Jacobi equations. (English summary) **99k:35025**
Zaslavski, Alexander J. Turnpike theorem for convex infinite-dimensional discrete-time control systems. (English summary) **99j:49056**

49L25 Viscosity solutions

Arisawa, Mariko Ergodic problem for the Hamilton-Jacobi-Bellman equation. II. (English and French summaries) **99g:49029**
Barbu, Viorel Feedback control of time dependent Stokes flows. **99f:49044**
Borisenok, S. V. Application of the method of convexification to find a multivalued integral. (English summary) **99j:49062**
Cannarsa, Piermarco (*with* Mennucci, Andrea; Sinestrari, Carlo) Regularity results for solutions of a class of Hamilton-Jacobi equations. (English summary) **99e:49032**
Cao, Frédéric Absolutely minimizing Lipschitz extension with discontinuous boundary data. (English and French summaries) **99h:49042**
Di Marco, Silvia C. (*with* Gonzalez, Roberto L. V.) Supersolutions and subsolutions techniques in a minimax optimal control problem with infinite horizon. (English summary) **99i:49033**
Dorroh, J. Robert (*with* Ferreyra, Guillermo) A free boundary problem in $\mathbf{R}^d$ with both smooth and nonsmooth fit. (English summary) **99d:49052**
Ferreyra, Guillermo *see* **Dorroh, J. Robert, 99d:49052**
Gonzalez, Roberto L. V. *see* **Di Marco, Silvia C., 99i:49033**
Kocan, Maciej (*with* Soravia, Pierpaolo) A viscosity approach to infinite-dimensional Hamilton-Jacobi equations arising in optimal control with state constraints. (English summary) **99f:49045**
Koike, Shigeaki A comparison result for the state constraint problem of differential games. **99e:49033**
Korneev, V. A. Numerical construction of a generalized solution of the two-dimensional Hamilton-Jacobi equation. (Russian. Russian summary) **99m:49044**
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Liu, Wenxiong Uniqueness of lower semicontinuous solutions for Hamilton Jacobi equations arising from L^∞ control problem. (English summary) **99i:49034**
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Motta, Monica (*with* Rampazzo, Franco) The value function of a slow growth control problem with state constraints. (English summary) **99j:49063**
Nisio, Makiko On infinite-dimensional stochastic differential games. **99e:49034**
Pham, Huyên Optimal stopping of controlled jump diffusion processes: a viscosity solution approach. (English summary) **99h:49043**
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— *see also* **Motta, Monica, 99j:49063**
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— *see also* **Kocan, Maciej, 99f:49045**
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Ball, Joseph A. (*with* Helton, J. William) Viscosity solutions of Hamilton-Jacobi equations arising in nonlinear H_∞-control. (English summary) **99h:93037**
Bardi, Martino (*with* Capuzzo-Dolcetta, Italo) ★ Optimal control and viscosity solutions of Hamilton-Jacobi-Bellman equations. (English summary) **99e:49001**
— *see also* **Stochastic and differential games, 99m:90005**
Bellettini, Giovanni Some results on minimum barriers for geometric motions of sets. (Italian. English summary) **99a:49048**
— (*with* Novaga, Matteo) Comparison results between minimal barriers and viscosity solutions for geometric evolutions. **99i:35081**
Bian, Baojun Viscosity solutions of the implicit obstacle problems. (English summary) **99m:35091**
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Huang, Jie[1] An algorithm to solve the discrete HJI equation arising in the L_2 gain optimization problem. (English summary) **99j:93037**
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49L99 None of the above, but in this section

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Horie, Kazuo Homogenization of Hamilton-Jacobi equations with Neumann and Dirichlet boundary conditions. (*see* **99a:35003**)

49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

49M05 Methods based on necessary conditions

Dadebo, S. A. (*with* McAuley, K. B.; McLellan, P. J.) On the computation of optimal singular and bang-bang controls. (English summary) **99e:49035**
Dikusar, V. V. Optimal control problems with mixed constraints. (Russian. Russian summary) **99d:49053**
Imae, Joe A Riccati-equation-based algorithm for continuous-time optimal control problems. (English summary) **99m:49045**
Ito, Kazufumi (*with* Ravindran, S. S.) A reduced basis method for control problems governed by PDEs. (English summary) **99c:49029**
Khaĭlov, E. N. On the solution of an optimal control problem with a terminal functional for a homogeneous bilinear system. (Russian. Russian summary) **99d:49054**
Kostyukova, O. I. (*with* Prishchepova, S. V.) A finite algorithm for solving an optimal control problem with phase constraints at discrete moments of time. (Russian. Russian summary) **99d:49055**
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Pytlak, R. (*with* Vinter, R. B.) A feasible directions algorithm for optimal control problems with state and control constraints: convergence analysis. (English summary) **99f:49046**
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Agrawal, Om Prakash (*with* Gregory, John[1]) The complete solution for constrained delay problems in the calculus of variations by unconstrained methods. (English summary) **99d:49016**
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Kolokol′nikova, G. A. A variational maximum principle for discontinuous trajectories of unbounded asymptotically linear control systems. (Russian. Russian summary) **99k:49046**
Minyuk, S. A. On an exact solution of the time-optimality problem in the case of linear time-independent systems with a real spectrum. (Russian. Russian summary) **99d:49009**
Serovaĭskiĭ, S. Ya. Optimal control of a nonlinear singular system with a phase constraint. (Russian. Russian summary) **99i:49007**

49M07 Gradient methods

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Serovaĭskiĭ, S. Ya. Gradient methods in the problem of the optimal control of a nonlinear elliptic system. (Russian. Russian summary) **99j:49065**
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Dunn, Joseph C. L^2 sufficient conditions for end-constrained optimal control problems with inputs in a polyhedron. (English summary) **99j:49036**
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49M10 Methods of steepest descent type

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Pascali, Eduardo Some results on generalized minimizing movements. (English summary) **99b:49028**

49M15 Methods of Newton-Raphson, Galerkin and Ritz types

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Goldberg, Helmuth (*with* Tröltzsch, Fredi) On a SQP-multigrid technique for nonlinear parabolic boundary control problems. (English summary) **99e:49039**
Heinkenschloss, Matthias Formulation and analysis of a sequential quadratic programming method for the optimal Dirichlet boundary control of Navier-Stokes flow. (English summary) **99f:49049**
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Alvarez, Felipe (*with* Pérez-Cerda, José Manuel) A dynamical system associated with Newton's method for parametric approximations of convex minimization problems. (English summary) **99f:90076**
Beard, Randal W. (*with* Saridis, George N.; Wen, John T.) Approximate solutions to the time-invariant Hamilton-Jacobi-Bellman equation. (English summary) **99d:49051**
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49M20 Methods of relaxation type

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49M25 Finite difference methods

Arnăutu, Viorel (*with* Neittaanmäki, Pekka) Discretization estimates for an elliptic control problem. (English summary) **99f:49050**
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Bertsekas, Dimitri P. *see* **Polymenakos, Lazaros C.; et al., 99d:49057**
Betts, John T. (*with* Huffman, William P.) Mesh refinement in direct transcription methods for optimal control. (English summary) **99a:49038**

Brighi, Bernard (*with* Chipot, Michel) Approximation of infima in the calculus of variations. (English summary) **99k:49069**
Chipot, Michel (*with* Elfanni, Abdellah) On the numerical analysis of some variational problems with nonhomogeneous boundary conditions. (English summary) **99j:49066**
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Chuang, Luhan (*with* Katz, I. Norman) Numerical methods for finding clustersolutions of optimal control problems. (English summary) **99g:49030**
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— (*with* Khamayseh, Ahmed) Numerical solution of non-stationary aero-autoelasticity integro-differential operator equations. (English summary) **99m:49046**
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Gunzburger, Max D. (*with* Hou, LiSheng; Manservisi, S.; Yan, Yin) Computations of optimal controls for incompressible flows. (English summary) **99m:49047**
He, Jiwen (*with* Glowinski, Roland) Neumann control of unstable parabolic systems: numerical approach. (English summary) **99b:49031**
Hou, LiSheng (*with* Ravindran, S. S.) Penalty methods for numerical approximations of optimal boundary flow control problems. (English summary) **99m:49048**
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— (*with* Vel'ov, Vladimir M.) Discrete approximations of differential inclusions. (English summary) **99j:49068**
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Lin, Wei Dong A stepwise sequential quadratic programming method for unconstrained discrete optimal control problems. (Chinese. English and Chinese summaries)
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Parmuzin, E. I. (*with* Shutyaev, V. P.) Numerical algorithms for solving a problem of data assimilation. (Russian. Russian summary) **99d:49056**
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Pytlak, R. Runge-Kutta based procedure for the optimal control of differential-algebraic equations. (English summary) **99c:49031**
Ravindran, S. S. Numerical approximation of optimal flow control problems by SQP method. **99d:49058**
— *see also* **Hou, LiSheng, 99m:49048**
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Bătătorescu, A. Optimal solution of a bottleneck problem with state delay. (English summary) **99d:49059**
Bianco, Steven A. (*with* Sadek, Ibrahim S.; Kambule, Matthew T.) Optimal control of a class of time-delayed distributed systems by orthogonal functions. (English summary)
Burns, John A. (*with* Stanley, Lisa G.; Stewart, Dawn L.) A projection method for accurate computation of design sensitivities. (English summary) **99e:65103**
Caballero Fernández, Rafael E. *see* **Calderón Montero, Susana; et al., (99g:00036)**
Calderón Montero, Susana (*with* Caballero Fernández, Rafael E.; Hidalgo Sánchez, Ramón) Direct collocation in nonlinear control problems. (Spanish) (*see* **99g:00036**)
Cañada, A. (*with* Gámez, J. L.; Montero, J. A.) Study of an optimal control problem for diffusive nonlinear elliptic equations of logistic type. (English summary) **99m:49005**
Comeau, A. Raymond (*with* Hori, Noriyuki) State-space forms for higher-order discrete-time models. (English summary) **99m:93061**
Donchev, Tzanko (*with* Farkhi, Elza) Stability and Euler approximation of one-sided Lipschitz differential inclusions. (English summary) **99c:34024**
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Goldberg, Helmuth (*with* Tröltzsch, Fredi) On a SQP-multigrid technique for nonlinear parabolic boundary control problems. (English summary) **99e:49039**
Gunzburger, Max D. (*with* Lee, Hyung-Chun) Analysis and approximation of optimal control problems for first-order elliptic systems in three dimensions. (English summary) **99k:49054**
Hidalgo Sánchez, Ramón *see* **Calderón Montero, Susana; et al., (99g:00036)**
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Raisch, Jörg (*with* O'Young, Siu D.) Discrete approximation and supervisory control of continuous systems. (English summary) (*see* **99a:93006**)
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Soravia, Pierpaolo Estimates of convergence of fully discrete schemes for the Isaacs equation of pursuit-evasion differential games via maximum principle. (English summary) **99a:90260**
Stanley, Lisa G. *see* **Burns, John A.; et al., 99e:65103**
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49M27 Decomposition methods

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49M29 Multiplier methods

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Goldberg, Helmuth (*with* Tröltzsch, Fredi) On a Lagrange-Newton method for a nonlinear parabolic boundary control problem. (English summary) **99a:49040**
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49M30 Other methods, not based on necessary conditions (penalty function, etc.)

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linear time-invariant dynamic systems using transformations. (English summary)

Antonik, V. G. (*with* Srochko, V. A.) The projection method in linear-quadratic problems of optimal control. (Russian. Russian summary) **99c:49033**

Battermann, A. (*with* Heinkenschloss, Matthias) Preconditioners for Karush-Kuhn-Tucker matrices arising in the optimal control of distributed systems. (English summary) **99e:49042**

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— (*with* Li, Ken S.) A collocation method for solving non-linear optimal control problems. (English summary) (*see* **99m:34001**)

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Andronov, V. G. (*with* Belousov, E. G.) On the Berge convergence of the method of penalty functions with respect to the argument. (Russian. Russian summary) **99e:90083**

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Barbu, Viorel Semilinear periodic optimal control problems. (English summary) **99k:49078**

Barrientos, O. A global regularization method for solving the finite min-max problem. (English summary) **99j:90079**

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Bity, Barbara Optimal control of a two-dimensional linear system with a quadratic performance index with constraints on the trajectory and the control. (Polish. English summary) **99a:49041**

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Bokhari, M. A. *see* **Sadek, Ibrahim S.**

Burke, James V. (*with* Qian, Maijian) A variable metric proximal point algorithm for monotone operators. (English summary) **99h:90093**

Casas Rentería, Eduardo (*with* Kunisch, Karl; Pola, C.) Some applications of BV functions in optimal control and calculus of variations. (English summary) **99j:49046**

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Rugh, Wilson J. *see* **Tan, Hualin, 99j:49061**
Sadek, Ibrahim S. (*with* Bokhari, M. A.) Optimal control of a parabolic distributed parameter system via orthogonal polynomials. (English summary)
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Stephan, Jennifer (*with* Bodson, Marc; Lehoczky, John) Calculation of recoverable sets for systems with input and state constraints. (English summary) **99k:93014**
Sukhinin, M. F. A numerical method for solving quadratic programming problems with quadratic penalties applied by stages. (Russian. Russian summary) **99f:90075**
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Yen, Vincent C. (*with* Liu, Tsong-Zen) An inverse dynamics-based dynamic programming method for optimal control problems of linear systems. (English summary)
Zhang, Li Wei (*with* Tang, Huan Wen) A further study on a penalty function of Bertsekas. (English summary) (*see* **99b:90004**)
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49M35 Methods of linear programming type [see also 90C05]

Bătătorescu, A. Optimal solution of a bottleneck problem with state delay. (English summary) **99d:49059**

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Benson, Harold P. An outer approximation algorithm for generating all efficient extreme points in the outcome set of a multiple objective linear programming problem. (English summary) **99e:90079**
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Luo, Xiaodong (*with* Bertsimas, Dimitris) A new algorithm for state-constrained separated continuous linear programs. (English summary) **99e:90057**
Mendiondo, Marta Susana (*with* Stockbridge, Richard H.) Approximation of infinite-dimensional linear programming problems which arise in stochastic control. (English summary) **99e:90061**
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49M37 Nonlinear programming [see also 90C30]

Kaplan, A. A. (*with* Tichatschke, R.) Proximal penalty method for ill-posed parabolic optimal control problems. (English summary) **99e:49043**
Tichatschke, R. *see* **Kaplan, A. A., 99e:49043**

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— *see also* **Vasil'ev, F. P., 99d:90121**
Bonnans, J. Frédéric (*with* Gilbert, Jean Charles; Lemaréchal, Claude; Sagastizábal, Claudia) ★ Optimisation numérique. (French. French summary) [Numerical optimization] **99f:90001**
Dunn, Joseph C. Augmented gradient projection calculations for regulator problems with pointwise state and control constraints. (English summary) **99f:49047**
Fukushima, Masao Parallel variable transformation in unconstrained optimization. (English summary) **99e:90089**
Gilbert, Jean Charles *see* **Bonnans, J. Frédéric; et al., 99f:90001**
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Pomazanov, M. V. Computation of an optimal manifold for facilitating the selection of a target and its attainment with minimal losses. (Russian. Russian summary) **99c:49039**
Pytlak, R. (*with* Vinter, R. B.) A feasible directions algorithm for optimal control problems with state and control constraints: convergence analysis. (English summary) **99f:49046**
Sagastizábal, Claudia *see* **Bonnans, J. Frédéric; et al., 99f:90001**
Vasil'ev, F. P. (*with* Antipin, A. S.) Regularization methods for the search for a fixed point of extremal mappings. (Russian. Russian summary) **99d:90121**
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49M39 Semi-infinite programming [see also 90C34]

Items with secondary classifications in 49M39

Helbig, S. (*with* Todorov, Maxim I.) Unicity results for general linear semi-infinite optimization problems using a new concept of active constraints. (English summary) **99i:90102**
Levitin, E. S. (*with* Tichatschke, R.) A branch-and-bound approach for solving a class of generalized semi-infinite programming problems. (English summary) **99i:90103**
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Todorov, Maxim I. *see* **Helbig, S., 99i:90102**

49M40 Methods of quadratic programming type [see also 90C20]

Jaćimović, Milojica (*with* Krnić, Izedin) On some classes of regularization methods for minimization problem of quadratic functional on a half-space. (English summary) **99m:49054**
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Items with secondary classifications in 49M40

Heinkenschloss, Matthias Formulation and analysis of a sequential quadratic programming method for the optimal Dirichlet boundary control of Navier-Stokes flow. (English summary) **99f:49049**
Imae, Joe A Riccati-equation-based algorithm for continuous-time optimal control problems. (English summary) **99m:49045**

49M45 Methods of convex programming type [see also 90C25]

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Lemaire, Bernard Itération et approximation. (French summary) [Iteration and approximation] **99j:90059**

49M99 None of the above, but in this section

Kryazhimskii, Arkadii V. (*with* Maksimov, V. I.) An iterative procedure for solving a control problem with phase constraints. (Russian. Russian summary) **99m:49055**
Maksimov, V. I. *see* **Kryazhimskii, Arkadii V., 99m:49055**

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Alexandre, P. (*with* Nguyen, Van Hien; Tossings, P.) The perturbed generalized proximal point algorithm. (English and French summaries) **99e:65095**
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Chavent, Guy (*with* Kunisch, Karl) Regularization of linear least squares problems by total bounded variation. (English summary) **99b:65071**
Elnagar, Gamal N. Optimal control computation for integro-differential aerodynamic equations. (English summary) **99a:45022**
Kunisch, Karl *see* **Chavent, Guy, 99b:65071**
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Lin, Zheng Hua (*with* Li, Yong[6]) Homotopy method for solving variational inequalities. (English summary) **99m:65125**
Nguyen, Van Hien *see* **Alexandre, P.; et al., 99e:65095**
Noor, Muhammad Aslam (*with* Al-Said, Eisa A.) Algorithms for nonlinear mixed variational inequalities. (English summary) **99b:47096**
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Zeng, Liu Chuan On a general projection algorithm for variational inequalities. (English summary) **99e:47096**
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49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

Items with secondary classifications in 49N05

Agrachev, Andrei (*with* Stefani, Gianna; Zezza, Pierluigi) An invariant second variation in optimal control. (English summary) **99k:49040**
Chen, Ben M. ★ H_∞ control and its applications. **99m:93001**
Stefani, Gianna *see* **Agrachev, Andrei; et al., 99k:49040**
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49N10 Linear-quadratic problems

Achenie, Luke E. K. *see* **Yuan, Lisong; et al.**
Ahmed, N. U. (*with* Kerbal, S.) Linear quadratic regulator for systems governed by B-evolutions. (English summary) **99k:49074**
Andreeva, I. Yu. (*with* Sesekin, A. N.) A degenerate linear-quadratic optimization problem with time delay. (Russian. Russian summary) **99e:49044**
Bity, Barbara Optimal control of a two-dimensional linear system with a quadratic performance index with constraints on the trajectory and the control. (Polish. English summary) **99a:49041**
Chen, Yang Zhou Linear-quadratic optimal control of time-invariant systems with a bound on the control energy. (Chinese. English and Chinese summaries)
van Eijndhoven, S. J. L. *see* **Heemels, W. P. M. H.; et al., 99f:49053**
Gong, De En The inverse problem of the optimum regulator for a time-invariant linear system. (Chinese. English and Chinese summaries)
Grabowski, Piotr The LQ controller synthesis problem: an operator case. (English summary) **99h:49045**
Heemels, W. P. M. H. (*with* van Eijndhoven, S. J. L.; Stoorvogel, Anton A.) Linear quadratic regulator problem with positive controls. (English summary) **99f:49053**
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Jacob, Birgit Linear quadratic optimal control of time-varying systems with indefinite costs on Hilbert spaces: the finite horizon problem. (English summary) **99h:49046**
Jiang, Wei-Sun *see* **Yuan, Lisong; et al.**
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Kogan, Mark M. Optimality conditions for linear robust controllers. (English summary) (*see* **99b:93002**)
Koryashkina, L. S. Methods for the optimal partition of sets for some control problems with a quadratic functional. (Russian. English, Russian and Ukrainian summaries)
Kunkel, Peter (*with* Mehrmann, Volker) The linear quadratic optimal control problem for linear descriptor systems with variable coefficients. (English summary) **99f:49054**
Li, Duan *see* **Teo, Kok Lay; et al., 99e:49045**
Li, Xunjing *see* **Wu, Hanzhong**
Liu, Wan Quan (*with* Teo, Kok Lay; Yan, Wei Yong; Sreeram, V.) On initial jumps for singular systems in connection with LQ optimal control. (English summary)
Liu, Yanqun *see* **Teo, Kok Lay; et al., 99e:49045**
McMillan, Christine Alicia Equivalent conditions for the solvability of nonstandard LQ-problems with applications to partial differential equations with continuous input-output solution map. (English summary) **99i:49038**
Mehrmann, Volker *see* **Kunkel, Peter, 99f:49054**
Quintana Ortí, Enrique S. (*with* Hernández, Vicente G.; Quintana-Ortí, Gregorio) Numerical methods for the solution of the linear-quadratic optimal control problem. (Spanish. English and Spanish summaries)
Quintana-Ortí, Gregorio *see* **Quintana Ortí, Enrique S.; et al.**
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49N25 Impulsive optimal control problems [see also 93C57]

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49N35 Closed-loop controls

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Fahl, M. (*with* Sachs, Ekkehard W.) Modern optimization methods for structural optimization under flutter constraints. (English summary) (*see* **99d:49001**)
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Grigoriev, R. O. Optimal control of spatiotemporal chaos in coupled map lattices. (English summary) (*see* **99h:70002**)
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Kuang, Zhifeng (*with* Yang, Ming Zhu; Zhu, Guang Tian) Optimal control applications in transport theory. (English summary) **99j:82071**
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49N60 Regularity of solutions in the calculus of variations

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Cianchi, Andrea (*with* Fusco, Nicola) Gradient regularity for minimizers under general growth conditions. **99m:49062**
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Fan, Xian Ling Regularity of Lagrangians with $\alpha(x)$-growth conditions. (Chinese. English and Chinese summaries) **99e:49051**
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— (*with* Osmolovskiĭ, V. G.) Variational integrals on Orlicz-Sobolev spaces. (English summary) **99f:49060**
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— *see also* **Fuchs, Martin², 99i:49046**
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Adams, David R. (*with* Lenhart, Suzanne; Yong, Jiong Min) Optimal control of the obstacle for an elliptic variational inequality. (English summary) **99h:49004**
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Boccardo, Lucio (*with* Orsina, Luigi) Existence and regularity of minima for integral functionals noncoercive in the energy space. **99k:49003**
Cannarsa, Piermarco (*with* Mennucci, Andrea; Sinestrari, Carlo) Regularity results for solutions of a class of Hamilton-Jacobi equations. (English summary) **99e:49032**
Casas Rentería, Eduardo (*with* Kavian, O.; Puel, Jean-Pierre) Optimal control of an ill-posed elliptic semilinear equation with an exponential nonlinearity. (English summary) **99k:49012**
Chipot, Michel (*with* Ellatifi, A.) Regularity results for nonlocal variational inequalities. (English summary) **99h:49010**
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Fei, Ning Regularity of the W-minima of a general regular functional. (Chinese. English and Chinese summaries) **99g:49032**
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Fonseca, Irene (*with* Fusco, Nicola) Regularity results for anisotropic image segmentation models. **99f:49007**
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Weiss, Georg S. Partial regularity for weak solutions of an elliptic free boundary problem. **99d:35188**
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49N65 Applications of measurable selections to control theory [see also 28B20, 26E25]

Levin, V. L. Existence and uniqueness of a measure-preserving optimal mapping in the general Monge-Kantorovich problem. (Russian)

49N99 None of the above, but in this section

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Chavent, Guy (*with* Kunisch, Karl) Regularization of linear least squares problems by total bounded variation. (English summary) **99b:65071**
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49Qxx Manifolds [see also 58Fxx]

49Q05 Minimal surfaces [see also 53A10, 58E12]

Almgren, Fred (*with* Taylor, Jean E.) Soap bubble clusters. **99e:49052**
David, Guy (*with* Semmes, Stephen) Surfaces quasiminimales de codimension 1 et domaines de John. [Quasiminimal surfaces of codimension 1 and John domains] **99h:49054**
Galotta, Rosanna Asymptotic behavior of bounded minimal surfaces of two Jordan curves in parallel planes (in $\mathbf{R}^3$). (Italian)
Goncharov, Vladimir V. (*with* Ornelas, António) Surfaces changing continuously with affine boundary data and having gradients on a prescribed set. (English summary) (*see* **99d:00015**)
Kim, Inho Relative isoperimetric inequality and linear isoperimetric inequality for minimal submanifolds. (English summary) **99i:49047**
Messaoudene, Mohamed The unit mass ball of three-vectors in $\mathbf{R}^6$. (English summary) **99e:49053**
Miranda, Mario Minimal boundaries inside a sphere. (Italian. English summary) **99f:49062**
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Tamanini, Italo Counting elements of least-area partitions. **99f:49063**
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Castillon, Philippe Sur l'opérateur de stabilité des sous-variétés à courbure moyenne constante dans l'espace hyperbolique. [On the stability operator of submanifolds with constant mean curvature in hyperbolic space] **99c:53062**
Dierkes, Ulrich Minimal surfaces in singular spaces. **99j:53006**
Eberhardt, Bernd Computing minimal surfaces with particle systems. (English summary) (*see* **99d:65003**)
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. II. The edge-creeping phenomenon. (English summary) **99e:58044**
Hoffman, David A. (*with* Rossman, Wayne) Limit surfaces of Riemann examples. (English summary) **99h:53008**
Hsieh, Chun-Chung Phragmèn-Lindelöf theorem of minimal surface equations in domains with symmetry. (English summary) **99d:35048**
Huang, Wu-Hsiung (*with* Lin, Chun-Chi) Negatively curved sets on surfaces of constant mean curvature in $\mathbf{R}^3$ are large. (English summary) **99j:58049**
Hutchings, Michael The structure of area-minimizing double bubbles. (English summary) **99j:53010**
Kusner, Robert B. (*with* Sullivan, John M.) Comparing the Weaire-Phelan equal-volume foam to Kelvin's foam. **99e:52031**

Kutev, Nikolai (*with* Tomi, F.) Existence and nonexistence for the exterior Dirichlet problem for the minimal surface equation in the plane. **99m:35062**
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Parks, Harold R. (*with* Pitts, Jon T.) Computing least area hypersurfaces spanning arbitrary boundaries. (English summary) **99a:65026**
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Sternberg, Peter (*with* Zumbrun, Kevin) A Poincaré inequality with applications to volume-constrained area-minimizing surfaces. (English summary) **99g:58028**
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Thomson, William, Lord Kelvin On the division of space with minimum partitional area. **99d:53012**
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Wienholtz, Daniel ★ Zum Ausschluß von Randverzweigungspunkten bei Minimalflächen. (German) [On the exclusion of boundary branch points of minimal surfaces] **99d:58042**
Zumbrun, Kevin *see* **Sternberg, Peter**, **99g:58028**

49Q10 Optimization of the shape other than minimal surfaces [see also 73K40, 90C90]

Achdou, Yves (*with* Pironneau, Olivier; Valentin, Frederic G. C.) Shape control versus boundary control. (English summary) **99j:49080**
Andersson, Paul (*with* Berggren, Martin; Henningson, Dan S.) Optimal disturbances in boundary layers. (English summary) (*see* **99d:49001**)
Aste, Tomaso *see* **Rivier, Nicolas**, **99a:49047**
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Borggaard, Jeff (*with* Pelletier, Dominique) Observations in adaptive refinement strategies for optimal design. (English summary) (*see* **99d:49001**)
Bresch, Didier (*with* Simon, Jacques) Sur les variations normales d'un domaine. (French summary) [On the normal variations of a domain] **99f:49064**
Bubner, Nikolaus (*with* Sokołowski, Jan; Sprekels, Jürgen) Optimal boundary control problems for shape memory alloys under state constraints for stress and temperature. (English summary) **99k:49085**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Anatomy of the shape Hessian via Lie brackets. (English summary) **99d:49073**
— (*with* Trebeschi, Paola) Shape optimisation problems governed by nonlinear state equations. (English summary) **99i:49048**
Buttazzo, Giuseppe (*with* Guasoni, Paolo) Shape optimization problems over classes of convex domains. (English summary) **99b:49039**
— On the existence of minimizing domains for some shape optimization problems. (English summary) **99g:49038**
Chaâbane, Slim (*with* Jaoua, Mohamed) Dérivation par rapport au domaine pour un problème aux limites avec condition de Signorini. (English and French summaries) [Derivative with respect to the domain for a Signorini boundary value problem] **99k:49086**
Chleboun, Jan (*with* Xanthis, Leonidas S.) The method of arbitrary lines in optimal shape design: problems with an elliptic state equation. (English summary) **99f:49065**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Shape analysis via distance functions: local theory. (English summary) **99d:49074**
Denkowski, Zdzisław (*with* Migórski, Stanisław) Optimal shape design problems for a class of systems described by hemivariational inequalities. (English summary) **99m:49063**
— (*with* Migórski, Stanisław) Optimal shape design for hemivariational inequalities. (English summary) (*see* **99f:58002**)
Dvořák, Jan[1] (*with* Haslinger, Jaroslav) Shape optimization and homogenization based approach in material optimization. (English summary) **99g:49039**
Dziri, Raja (*with* Zolésio, Jean-Paul) Dynamical shape control in non-cylindrical hydrodynamics. (English summary) **99k:49087**
Gasiński, L. Optimal shape design problems for a class of systems described by parabolic hemivariational inequality. (English summary) **99f:49066**
Glowinski, Roland (*with* He, Jiwen) On shape optimization and related issues. (English summary) **99i:49049**
Guasoni, Paolo *see* **Buttazzo, Giuseppe**, **99b:49039**
Habbal, Abderrahmane Nonsmooth shape optimization applied to linear acoustics. (English summary) **99i:49050**
Haslinger, Jaroslav Fictitious domain approaches in shape optimization. **99g:49040**
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Henningson, Dan S. *see* **Andersson, Paul; et al.**, (**99d:49001**)
Henrot, Antoine (*with* Sokołowski, Jan) A shape optimization problem for the heat equation. (English summary) **99f:49067**
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Kawohl, Bernd (*with* Lang, Jan) Are some optimal shape problems convex? (English summary) **99a:49046**
Kunisch, Karl (*with* Peichl, G. H.) Shape optimization for mixed boundary value problems based on an embedding domain method. (English summary) **99f:49068**
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Laumen, Manfred A comparison of numerical methods for optimal shape design problems. (English summary)
Migórski, Stanisław *see* **Denkowski, Zdzisław**, **99m:49063** *and* (**99f:58002**)
Muravei, Leonid A. A boundary control problem for elliptic equations. (Russian. Russian summary) **99h:49055**
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Sokołowski, Jan (*with* Żochowski, A.) Topological derivatives for elliptic problems. (English summary) **99k:49088**
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Stredulinsky, Edward (*with* Ziemer, William P.) Area minimizing sets subject to a volume constraint in a convex set. (English summary) **99k:49089**
Tiihonen, Timo Shape calculus and FEM in smooth domains. (English summary) **99c:49041**
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Trebeschi, Paola *see* **Bucur, Dorin**, **99i:49048**
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Zolésio, Jean-Paul Shape differential equation with a non-smooth field. (English summary) **99h:49056**
— *see also* **Bucur, Dorin**, **99d:49073**; **Delfour, Michel C.**, **99d:49074** *and* **Dziri, Raja**, **99k:49087**

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Adams, Colin C. (*with* Morgan, Frank) Isoperimetric curves on hyperbolic surfaces. (English summary) **99h:53080**
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Alvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Modeling and optimization of a non-symmetric plate. (English summary) **99e:73066**
Bendsøe, Martin P. (*with* Taylor, John E.; Washabaugh, Peter D.) A formulation for optimal continuum structures with a decomposition of material properties into specified and designable parts. (English summary) **99k:73088**
Braides, Andrea (*with* Garroni, Adriana) On the non-local approximation of free-discontinuity problems. **99e:49012**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Wiener's criterion and shape continuity for the Dirichlet problem. (Italian summary) **99b:35037**
— (*with* Buttazzo, Giuseppe; Henrot, Antoine) Existence results for some optimal partition problems. (English summary) **99k:49004**
Buttazzo, Giuseppe *see* **Bucur, Dorin; et al.**, **99k:49004**
Celada, Pietro (*with* Perrotta, Stefania; Treu, Giulia) Existence of solutions for a class of nonconvex minimum problems. **99i:49002**
— (*with* Perrotta, Stefania) Functions with prescribed singular values of the gradient. (English summary) **99f:49001**
Chen, Xinfu *see* **Alikakos, Nicholas D.; et al.**, **99b:35171**
Cherkaev, Andrej V. (*with* Krog, Lars A.; Kucuk, Ismail) Stable optimal design of two-dimensional elastic structures. (English summary) **99k:73089**
Chiarelli, Alessandra *see* **Rudnaya, Svetlana; et al.**, (**99d:00023**)
Chiheb, Raddouane (*with* Panasenko, G. P.) Optimization of finite rod structures and L-convergence. (English summary) **99f:49059**
Chipot, Michel (*with* Müller, Stefan C.) Sharp energy estimates for finite element approximations of non-convex problems. **99m:65209**
Christensen, Søren T. (*with* Olhoff, Niels) Shape optimization of a loudspeaker diaphragm with respect to sound directivity properties. (English summary) (*see* **99k:73003**)
Cinquini, Carlo (*with* Mariani, Claudia; Venini, Paolo) Mixed finite element formulation and optimal design of thin composite laminates. (English summary) **99k:73113**
Cox, Steven J. (*with* Kawohl, Bernd; Uhlig, P. X.) On the optimal insulation of conductors. (English summary) **99k:49005**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Convergence to the asymptotic model for linear thin shells. (English summary) **99f:73055**
— Intrinsic differential geometric methods in the asymptotic analysis of linear thin shells. (English summary) **99g:73080**
Fahroo, F. (*with* Ito, Kazufumi) Variational formulation of optimal damping designs. (English summary) **99g:49021**
Folgado, J. (*with* Rodrigues, Helder Carrico) Structural optimization with a non-smooth buckling load criterion. (English summary) (*see* **99k:73003**)
Fonseca, Irene (*with* Francfort, Gilles) 3D-2D asymptotic analysis of an optimal design problem for thin films. (English summary) **99k:73091**
Francfort, Gilles *see* **Fonseca, Irene**, **99k:73091**
Fusco, Giorgio *see* **Alikakos, Nicholas D.; et al.**, **99b:35171**
Garroni, Adriana *see* **Braides, Andrea**, **99e:49012**
Gunzburger, Max D. (*with* Kim, Hongchul) Existence of an optimal solution of a shape control problem for the stationary Navier-Stokes equations. (English summary) **99d:49011**
Henrot, Antoine *see* **Bucur, Dorin; et al.**, **99k:49004**
Herdman, Terry L. (*with* Kang, Kyehong) A structured reduced sequential quadratic programming and its application to a shape design problem. (English summary)
Ito, Kazufumi *see* **Fahroo, F.**, **99g:49021**
Kang, Kyehong *see* **Herdman, Terry L.**
Kawohl, Bernd *see* **Cox, Steven J.; et al.**, **99k:49005**
Kim, Hongchul *see* **Gunzburger, Max D.**, **99d:49011**
Krog, Lars A. *see* **Cherkaev, Andrej V.; et al.**, **99k:73089**
Kucuk, Ismail *see* **Cherkaev, Andrej V.; et al.**, **99k:73089**
Larsen, Christopher J. A new proof of regularity for two-shaded image segmentations. (English summary) **99e:49022**
Mariani, Claudia *see* **Cinquini, Carlo; et al.**, **99k:73113**
McCann, Robert J. Equilibrium shapes for planar crystals in an external field. (English summary) **99j:73018**
Morgan, Frank *see* **Adams, Colin C.**, **99h:53080**
von der Mosel, Heiko ★ Geometrische Variationsprobleme höherer Ordnung. (German) [Geometric variational problems of higher order] **99g:58027**
(Mróz, Zenon) *see* **Recent advances in structural modelling and optimization**, **99k:73003**
Müller, Stefan C. *see* **Chipot, Michel**, **99m:65209**

Myśliński, A. *see* **Rousselet, Bernard; et al., 99a:73099**
Olhoff, Niels *see* **Christensen, Søren T., (99k:73003)**
Panasenko, G. P. *see* **Chiheb, Raddouane, 99f:49059**
Peichl, G. H. (*with* Ring, Wolfgang) Optimization of the shape of an electromagnet: regularity results. (English summary) **99j:78012**
Perrotta, Stefania *see* **Celada, Pietro, 99f:49001** *and* **99i:49002**
Piekarski, J. *see* **Rousselet, Bernard; et al., 99a:73099**
Rhode, Anne Katharina ★ Rotationssymmetrische Flächen konstanter mittlerer Krümmung in zwei konzentrischen Kreisen. (German) [Rotation-symmetric surfaces of constant mean curvature in two concentric circles] **99m:53017**
Ring, Wolfgang *see* **Peichl, G. H., 99j:78012**
Roche, Jean R. Gradient of the discretized energy method and discretized continuous gradient in electromagnetic shaping simulation. (English summary) **99e:78010**
Rodrigues, Helder Carrico *see* **Folgado, J., (99k:73003)**
Rousselet, Bernard (*with* Piekarski, J.; Myśliński, A.) Design sensitivity for a hyperelastic rod in large displacement with respect to its midcurve shape. (English summary) **99a:73099**
Rudnaya, Svetlana (*with* Santosa, Fadil; Chiareli, Alessandra) Optimal design of a diffractive optical element. (English summary) (*see* **99d:00023**)
Santosa, Fadil *see* **Rudnaya, Svetlana; et al., (99d:00023)**
(Sokołowski, Jan) *see* **Recent advances in structural modelling and optimization, 99k:73003**
Sprekels, Jürgen (*with* Tiba, Dan) Propriétés de bang-bang généralisées dans l'optimisation des plaques. (English and French summaries) [Generalized bang-bang properties in the optimization of plates] **99h:49034**
Taylor, John E. *see* **Bendsøe, Martin P.; et al., 99k:73088** *and* **Recent advances in structural modelling and optimization, 99k:73003**
Tiba, Dan *see* **Sprekels, Jürgen, 99h:49034**
Treu, Giulia *see* **Celada, Pietro; et al., 99i:49002**
Uhlig, P. X. *see* **Cox, Steven J.; et al., 99k:49005**
Venini, Paolo *see* **Cinquini, Carlo; et al., 99k:73113**
Viaño Rey, Juan M. *see* **Alvarez Vázquez, L. J., 99e:73066**
Washabaugh, Peter D. *see* **Bendsøe, Martin P.; et al., 99k:73088**
Zolésio, Jean-Paul *see* **Bucur, Dorin, 99b:35037** *and* **Delfour, Michel C., 99f:73055**

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Birthday:
Mróz, Zenon ★ Recent advances in structural modelling and optimization. **99k:73003**
Festschrift:
Mróz, Zenon ★ Recent advances in structural modelling and optimization. **99k:73003**
Recent advances in structural modelling and optimization ★ Recent advances in structural modelling and optimization. **99k:73003**
Special Issue:
Recent advances in structural modelling and optimization ★ Recent advances in structural modelling and optimization. **99k:73003**

49Q12 Sensitivity analysis

Items with secondary classifications in 49Q12

Chatelain, Thierry (*with* Choulli, Mourad) Clarke generalized gradient for eigenvalues. (English summary) **99a:47028**
Choulli, Mourad *see* **Chatelain, Thierry, 99a:47028**
Godfrey, Andrew G. Using sensitivities for flow analysis. (English summary) **99e:76075**
Gunzburger, Max D. Sensitivities in computational methods for optimal flow control. **99h:76065**
Stanley, Lisa G. (*with* Stewart, Dawn L.) A comparison of local and global projections in design sensitivity computations. (English summary) **99e:65033**
Stewart, Dawn L. *see* **Stanley, Lisa G., 99e:65033**

49Q15 Geometric measure and integration theory, integral and normal currents [see also 28A75, 32C30, 58A25, 58C35]

Amar, Micol (*with* Bellettini, Giovanni; Venturini, Sergio) Integral representation of functionals defined on curves of $W^{1,p}$. (English summary) **99c:49042**
Ambrosio, Luigi (*with* Braides, Andrea; Garroni, Adriana) Special functions with bounded variation and with weakly differentiable traces on the jump set. **99d:49075**
Bellettini, Giovanni *see* **Amar, Micol; et al., 99c:49042**
Braides, Andrea *see* **Ambrosio, Luigi; et al., 99d:49075**
Denzler, Jochen Windows of given area with minimal heat diffusion. (English summary) **99d:49076**
De Pauw, Thierry On SBV dual. (English summary) **99m:49064**
Fu, Joseph H. G. Bi-Lipschitz rough normal coordinates for surfaces with an L^1 curvature bound. **99k:49090**
Garroni, Adriana *see* **Ambrosio, Luigi; et al., 99d:49075**
Kärkkäinen, Kari T. (*with* Tiihonen, Timo) Free surfaces: shape sensitivity analysis and numerical methods. (English summary) **99k:49091**
Paolini, Emanuele Regularity for minimal boundaries in $\mathbf{R}^n$ with mean curvature in L^n. (English summary) **99f:49069**
Tiihonen, Timo *see* **Kärkkäinen, Kari T., 99k:49091**
Venturini, Sergio *see* **Amar, Micol; et al., 99c:49042**

Items with secondary classifications in 49Q15

Bongiorno, Benedetto (*with* Di Piazza, L.; Preiss, David) Infinite variation and derivatives in $\mathbf{R}^m$. (English summary) **99j:28003**
(Borggaard, Jeff) *see* **Computational methods for optimal design and control, 99d:49001**
(Burns, John A.) *see* **Computational methods for optimal design and control, 99d:49001**
(Cliff, Eugene M.) *see* **Computational methods for optimal design and control, 99d:49001**
David, Guy (*with* Semmes, Stephen) Quasiminimal surfaces of codimension 1 and John domains. (English summary) **99i:28012**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Hidden boundary smoothness for some classes of differential equations on submanifolds. (English summary) **99e:73071**
Di Piazza, L. *see* **Bongiorno, Benedetto; et al., 99j:28003**
Hug, Daniel Generalized curvature measures and singularities of sets with positive reach. (English summary) **99j:52004**
Jensen, Eva B. Vedel ★ Local stereology. **99h:60018**
Khavin, Viktor Petrovich *see* **Smirnov, S. K., 99f:41046**
Masters, Joseph D. The perimeter-minimizing enclosure of two areas in S^2. (English summary) **99a:52010**
Nakatani, Masao Strong unique continuation for critical points of some variational quantity. **99c:35041**
Preiss, David *see* **Bongiorno, Benedetto; et al., 99j:28003**
Richardson, T. J. Total curvature and intersection tomography. (English summary) **99c:52007**
(Schreck, Scott) *see* **Computational methods for optimal design and control, 99d:49001**
Semmes, Stephen *see* **David, Guy, 99i:28012**
Smirnov, S. K. (*with* Khavin, Viktor Petrovich) Approximation and extension problems for some classes of vector fields. (Russian. Russian summary) **99f:41046**
Sokołowski, Jan Displacement derivatives in shape optimization of thin shells. (English summary) **99b:73033**
Zolésio, Jean-Paul *see* **Delfour, Michel C., 99e:73071**

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Arlington, VA ★ Computational methods for optimal design and control. **99d:49001**
Computational methods for optimal design and control ★ Computational methods for optimal design and control. **99d:49001**
Workshop:
Optimal Design and Control ★ Computational methods for optimal design and control. **99d:49001**

49Q20 Variational problems in a geometric measure-theoretic setting

Ambrosio, Luigi Free discontinuity problems and special functions with bounded variation. **99j:49081**
Bellettini, Giovanni Some results on minimum barriers for geometric motions of sets. (Italian. English summary) **99a:49048**
Bouchitté, Guy (*with* Buttazzo, Giuseppe; Fragalà, Ilaria) Mean curvature of a measure and related variational problems. (English summary) **99j:49082**
Buttazzo, Giuseppe *see* **Bouchitté, Guy; et al., 99j:49082**
Fiorenza, Renato On some notions associated with curves in $\mathbf{R}^k$. (Italian. English and Italian summaries) **99d:49077**
Fragalà, Ilaria *see* **Bouchitté, Guy; et al., 99j:49082**
Gangbo, Wilfrid (*with* Święch, Andrzej) Optimal maps for the multidimensional Monge-Kantorovich problem. (English summary) **99f:49070**
— The Monge mass transfer problem and its applications. (English summary) **99k:49092**
Kružík, Martin (*with* Roubíček, Tomáš) On the measures of DiPerna and Majda. (English summary) **99c:49043**
Morgan, Frank Immiscible fluid clusters in $\mathbf{R}^2$ and $\mathbf{R}^3$. **99k:49093**
Mosco, Umberto Variations and irregularities. (English summary) **99c:49044**
— Self-similarity and the calculus of variations. (English summary) **99h:49057**
Nowak, Andrzej S. Normal fields of functionals and optimal measurable sections. (English summary) **99e:49054**
Roubíček, Tomáš *see* **Kružík, Martin, 99c:49043**
Sternberg, Peter Application of Poincaré inequalities to the structure of phase boundaries. (English summary) **99g:49041**
— (*with* Zumbrun, Kevin) Connectivity of phase boundaries in strictly convex domains. (English summary) **99c:49045**
Święch, Andrzej *see* **Gangbo, Wilfrid, 99f:49070**
Zumbrun, Kevin *see* **Sternberg, Peter, 99c:49045**

Items with secondary classifications in 49Q20

Alberti, Giovanni (*with* Bouchitté, Guy; Seppecher, Pierre) Phase transition with the line-tension effect. (English summary) **99j:76104**
Alibert, J.-J. (*with* Bouchitté, Guy) Non-uniform integrability and generalized Young measures. (English summary) **99i:28007**
Allaire, Grégoire (*with* Francfort, Gilles) Existence of minimizers for non-quasiconvex functionals arising in optimal design. (English and French summaries) **99d:49010**
Ambrosio, Luigi (*with* Soner, Halil Mete) A measure-theoretic approach to higher codimension mean curvature flows. (English summary) **99m:35217**
Amici, Oriella (*with* Casciaro, Biagio; Francaviglia, Mauro) Relations between variational derivatives of functions and scalar densities. (English summary) **99e:58054**
Aste, Tomaso *see* **Rivier, Nicolas, 99a:49047**
Bellettini, Giovanni (*with* Coscia, A.; Dal Maso, Gianni) Compactness and lower semicontinuity properties in SBD(Ω). **99e:49011**
Birindelli, Isabeau (*with* Finzi Vita, Stefano) A class of quasi-linear elliptic systems arising in image segmentation. (English summary) **99k:35043**
Bouchitté, Guy (*with* Fonseca, Irene; Malý, Jan) The effective bulk energy of the relaxed energy of multiple integrals below the growth exponent. (English summary) **99i:73024**
— *see also* **Alibert, J.-J., 99i:28007** *and* **Alberti, Giovanni; et al., 99j:76104**
Braides, Andrea ★ Approximation of free-discontinuity problems. **99j:49001**
Bresch, Didier (*with* Simon, Jacques) Sur les variations normales d'un domaine. (French summary) [On the normal variations of a domain] **99f:49064**
Casciaro, Biagio *see* **Amici, Oriella; et al., 99e:58054**
Celada, Pietro Minimum problems on SBV with irregular boundary datum. (English summary) **99f:49005**
Cheng, Qing-Ming (*with* Shiohama, Katsuhiro) Nonexistence of stable integral currents. **99j:53098**
Chentsov, A. G. (*with* Serov, V. P.) Representation for some set-theoretic limits in the class of two-valued finitely additive measures. (English summary) **99c:28006**

— On the universal asymptotics of admissible sets under relaxation of integral constraints and its representation in the class of finitely additive measures. (Russian) **99c:49006**
— Relaxation of integral constraints in the class of vector finitely additive measures. (Russian) **99k:49027**
— *see also* **Morina, S. I., 99c:93004**
Coscia, A. *see* **Bellettini, Giovanni; et al., 99e:49011**
Dacorogna, Bernard (*with* Marcellini, Paolo) Cauchy-Dirichlet problem for first order nonlinear systems. (English summary) **99a:35025**
Dal Maso, Gianni *see* **Bellettini, Giovanni; et al., 99e:49011**
Dogaru, Oltin (*with* Ţevy, I.; Udrişte, Constantin) Extrema constrained by a family of curves and local extrema. (English summary) **99c:49004**
Escobar, José F. Some isoperimetric problems. (Spanish. English and Spanish summaries) **99b:53054**
Fardoun, Ali Stability for the p-energy of the equator map of the ball into an ellipsoid. (English summary) **99c:58042**
Finzi Vita, Stefano *see* **Birindelli, Isabeau, 99k:35043**
Fonseca, Irene (*with* Marcellini, Paolo) Relaxation of multiple integrals in subcritical Sobolev spaces. (English summary) **99c:49014**
— *see also* **Bouchitté, Guy; et al., 99i:73024**
Francaviglia, Mauro *see* **Amici, Oriella; et al., 99e:58054**
Francfort, Gilles *see* **Allaire, Grégoire, 99d:49010**
Freddi, Lorenzo Optimal control problems in a nonreflexive framework and application to weakly converging nonlinear input operators. (English summary) (*see* **99d:00015**)
Giaquinta, M. Nonlinear elliptic systems. **99i:35029**
Gonzalez, Eduardo H. A. (*with* Massari, U.; Miranda, Mario) On minimal cones. (English summary) **99m:35012**
Han, Qing[1] (*with* Hardt, Robert; Lin, Fang Hua) Geometric measure of singular sets of elliptic equations. **99h:35032a**
— (*with* Hardt, Robert; Lin, Fang Hua) Erratum: "Geometric measure of singular sets of elliptic equations". **99h:35032b**
Hardt, Robert *see* **Han, Qing[1]; et al., 99h:35032a** *and* **99h:35032b**
Johnson, David Lewis *see* **Kocayusufoğlu, İsmail, 99j:53027**
Kocayusufoğlu, İsmail (*with* Johnson, David Lewis) Locally volume-minimizing codimension-one foliation of the solid torus. (English summary) **99j:53027**
Lachand-Robert, Thomas (*with* Peletier, Mark A.) Minimisation de fonctionnelles dans un ensemble de fonctions convexes. (English and French summaries) [Minimizing functionals on a set of convex functions] **99a:49004**
Lasiecka, Irena (*with* Triggiani, Roberto) Analyticity, and lack thereof, of thermo-elastic semigroups. (English summary) **99m:35243**
Lefter, Cătălin (*with* Rădulescu, Vicenţiu D.) Minimization problems and renormalized energies related to the Ginzburg-Landau equation. (English summary) **99k:58046**
Lin, Fang Hua *see* **Han, Qing[1]; et al., 99h:35032a** *and* **99h:35032b**
Lopes, Orlando Minimization problems for the exterior domain. (English summary) **99d:49007**
Malý, Jan *see* **Bouchitté, Guy; et al., 99i:73024**
Marcellini, Paolo *see* **Dacorogna, Bernard, 99a:35025** *and* **Fonseca, Irene, 99c:49014**
Massari, U. *see* **Gonzalez, Eduardo H. A.; et al., 99m:35012**
Mattila, Pertti Singular integrals, analytic capacity and rectifiability. (English summary) **99e:42026**
Miranda, Mario *see* **Gonzalez, Eduardo H. A.; et al., 99m:35012**
Morgan, Frank The hexagonal honeycomb conjecture. (English summary) **99m:52030**
Morina, S. I. (*with* Chentsov, A. G.) Extension of control problems in the class of finitely additive vector measures. (Russian. Russian summary) **99c:93004**
Mosco, Umberto Lagrangian metrics on fractals. (English summary) **99a:31007**
von der Mosel, Heiko Minimizing the elastic energy of knots. (English summary) **99m:58054**
Padilla, Pablo (*with* Tonegawa, Yoshihiro) On the convergence of stable phase transitions. (English summary) **99b:58054**
Pansu, Pierre Sur la régularité du profil isopérimétrique des surfaces riemanniennes compactes. (English and French summaries) [Regularity of the isoperimetric profile of compact Riemannian surfaces] **99i:53035**
Pedregal, Pablo Equilibrium conditions for Young measures. (English summary) **99d:49030**
Peletier, Mark A. *see* **Lachand-Robert, Thomas, 99a:49004**
Precupanu, Anca-Maria A convexity condition for the nonexistence of some antiproximinal sets in the space of integrable functions. (English summary) **99g:90159**
Rădulescu, Vicenţiu D. *see* **Lefter, Cătălin, 99k:58046**
Rivier, Nicolas (*with* Aste, Tomaso) Organized packing. **99a:49047**
Rivière, Tristan A remark on the use of differential forms for the Skyrme problem. (English summary) **99m:58059**
Roubíček, Tomáš Optimality conditions for nonconvex variational problems relaxed in terms of Young measures. (English summary) **99g:49023**
Savaré, Giuseppe (*with* Tomarelli, Franco) Superposition and chain rule for bounded Hessian functions. (English summary) **99k:35005**
Seppecher, Pierre *see* **Alberti, Giovanni; et al., 99j:76104**
Serov, V. P. *see* **Chentsov, A. G., 99c:28006**
Shiohama, Katsuhiro *see* **Cheng, Qing-Ming, 99j:53098**
Simon, Jacques *see* **Bresch, Didier, 99f:49064**
Smirnov, Mikhail M. Radon transforms, symplectic geometry and inverse problem of geometric calculus of variations. (English summary) **99e:53111**
Soner, Halil Mete *see* **Ambrosio, Luigi, 99m:35217**
Tannenbaum, Allen R. (*with* Yezzi, Anthony, Jr.) Gradients, curvature, and visual tracking. (English summary) **99g:49037**
Ţevy, I. *see* **Dogaru, Oltin; et al., 99c:49004**
Tomarelli, Franco *see* **Savaré, Giuseppe, 99k:35005**
Tonegawa, Yoshihiro *see* **Padilla, Pablo, 99b:58054**
Triggiani, Roberto *see* **Lasiecka, Irena, 99m:35243**
Udrişte, Constantin *see* **Dogaru, Oltin; et al., 99c:49004**
Valadier, Michel Admissible functions in two-scale convergence. (English summary) **99a:46134**
Visintin, Augusto Nucleation and mean curvature flow. (English summary) **99b:58077**
White, Brian Cabell Stratification of minimal surfaces, mean curvature flows, and harmonic maps. **99b:49038**
Yezzi, Anthony, Jr. *see* **Tannenbaum, Allen R., 99g:49037**
Yip, Nung Kwan Stochastic motion by mean curvature. (English summary) **99m:60100**
— Existence of dendritic crystal growth with stochastic perturbations. (English summary) **99f:58061**
Younes, Laurent Computable elastic distances between shapes. (English summary) **99c:68221**

49Q99 None of the above, but in this section

Amar, Micol Two-scale convergence and homogenization on BV(Ω). (English summary) **99b:49040**

Items with secondary classifications in 49Q99

Elschner, J. (*with* Schmidt, Gunther) Numerical solution of optimal design problems for binary gratings. (English summary) **99i:78023**
Guichard, Frédéric (*with* Morel, Jean-Michel) Images and movies scale-spaces. **99a:68177**
Klötzler, R. Strong duality for transportation flow problems. (English summary) **99a:90091**
Lassoued, Lotfi (*with* Lefter, Cătălin) On a variant of the Ginzburg-Landau energy. **99b:58062**
Lefter, Cătălin *see* **Lassoued, Lotfi, 99b:58062**
Morel, Jean-Michel *see* **Guichard, Frédéric, 99a:68177**
Schmidt, Gunther *see* **Elschner, J., 99i:78023**

49Rxx Variational methods {For eigenvalues of operators, see 47A75.}

49R05 Variational approach to eigenvalues

Items with secondary classifications in 49R05

Alvino, Angelo (*with* Ferone, Vincenzo; Trombetti, Guido) On the properties of some nonlinear eigenvalues. (English summary) **99d:35119**
Benguria, Rafael D. (*with* Depassier, M. Cristina) A variational method for nonlinear eigenvalue problems. (English summary) **99d:34030**
— (*with* Depassier, M. Cristina) Phase space derivation of a variational principle for one-dimensional Hamiltonian systems. (English summary) **99d:34031**
Chatelain, Thierry (*with* Choulli, Mourad) Clarke generalized gradient for eigenvalues. (English summary) **99a:47028**
Choulli, Mourad *see* **Chatelain, Thierry, 99a:47028**
Depassier, M. Cristina *see* **Benguria, Rafael D., 99d:34030** *and* **99d:34031**
Fang, Haitao (*with* Qian, Min Ping; Gong, Guang Lu) An improved annealing method and its large-time behavior. (English summary) **99g:60137**
Ferone, Vincenzo *see* **Alvino, Angelo; et al., 99d:35119**
Gong, Guang Lu *see* **Fang, Haitao; et al., 99g:60137**
Karaa, Samir Sharp estimates for the eigenvalues of some differential equations. (English summary) **99d:34162**
Lewis, Adrian S. Nonsmooth analysis of eigenvalues: a summary. (English summary)
Pestka, Grzegorz Variational solution of the Dirac-Coulomb equation using explicitly correlated wavefunctions. Matrix elements and radial integrals. (English summary) **99e:81265**
Qian, Min Ping *see* **Fang, Haitao; et al., 99g:60137**
Shagidullin, R. R. Minimization of the total energy functional for a soft shell. (Russian) **99d:73063**
Trombetti, Guido *see* **Alvino, Angelo; et al., 99d:35119**

49R10 Rayleigh-Ritz methods

Items with secondary classifications in 49R10

Andersson, Paul (*with* Berggren, Martin; Henningson, Dan S.) Optimal disturbances in boundary layers. (English summary) (*see* **99d:49001**)
Berggren, Martin *see* **Andersson, Paul; et al., (99d:49001)**
Brădeanu, Cristina (*with* Brădeanu, Doina) Application of the Ritz variational method for the problem of heat conduction through non-convex thick plates. **99c:80004**
Brădeanu, Doina *see* **Brădeanu, Cristina, 99c:80004**
Henningson, Dan S. *see* **Andersson, Paul; et al., (99d:49001)**

49S05 Variational principles of physics

Mazurov, P. A. On the construction of variational principles. (Russian. Russian summary) **99f:49071**

Items with secondary classifications in 49S05

Alberti, Giovanni (*with* Bellettini, Giovanni) A non-local anisotropic model for phase transitions: asymptotic behaviour of rescaled energies. (English summary) **99e:80003**
Bellettini, Giovanni *see* **Alberti, Giovanni, 99e:80003**
Benguria, Rafael D. (*with* Yáñez, Julio M.) Variational principle for the chemical potential in the Thomas-Fermi model. (English summary) **99g:81233**
Favretti, Marco Equivalence of dynamics for nonholonomic systems with transverse constraints. (English summary) **99k:70014**
Ghandehari, Mostafa Ray optics on surfaces. (English summary) **99i:78009**
Glocker, Ch. The principles of d'Alembert, Jourdain, and Gauss in nonsmooth dynamics. I. Scleronomic multibody systems. (English and German summaries) **99b:70019**

Rubinstein, Jacob (*with* Schatzman, Michelle) Asymptotics for thin superconducting rings. (English and French summaries) **99k:82079**

Schatzman, Michelle *see* **Rubinstein, Jacob**, **99k:82079**

Scholle, M. System symmetries and inverse variational problems in continuum theory. (English summary) **99j:73004**

Yáñez, Julio M. *see* **Benguria, Rafael D.**, **99g:81233**

Zaslavski, Alexander J. Existence and structure of extremals for one-dimensional nonautonomous variational problems. (English summary) **99d:49005**

51–XX Geometry {For algebraic geometry, see 14–XX.}

51–01 Instructional exposition (textbooks, tutorial papers, etc.)

Batten, Lynn Margaret ★ Combinatorics of finite geometries. (English summary) **99c:51001**
Beutelspacher, Albrecht (*with* Rosenbaum, Ute) ★ Projective geometry: from foundations to applications. (English summary) **99f:51001**
Coxeter, H. S. M. ★ Non-Euclidean geometry. (English summary) **99c:51002**
Hausner, Melvin ★ A vector space approach to geometry. (English summary) **99f:51002**
Polster, Burkard ★ A geometrical picture book. (English summary) **99f:51003**
Ramírez Galarza, Ana Irene ★ Geometría analítica: una introducción a la geometría. (Spanish. Spanish summary) [Analytic geometry: an introduction to geometry]
Rosenbaum, Ute *see* **Beutelspacher, Albrecht, 99f:51001**
Singer, David A. ★ Geometry: plane and fancy. (English summary) **99c:51003**

Items with secondary classifications in 51–01

Farin, Gerald E. (*with* Hansford, Dianne) ★ The geometry toolbox. (English summary) **99d:65389**
Hansen, Vagn Lundsgaard ★ Shadows of the circle. **99e:00001**
Hansford, Dianne *see* **Farin, Gerald E., 99d:65389**
Kneebone, G. T. *see* **Semple, J. G., 99h:14001**
McCartin, Brian J. Prelude to musical geometry. **99k:00016**
Rosen, Joe ★ Symmetry discovered. (English summary) **99e:20001**
Scheinerman, Edward R. Geometry. (English summary) (*see* **99a:05001**)
Semple, J. G. (*with* Kneebone, G. T.) ★ Algebraic projective geometry. (English summary) **99h:14001**
Sethuraman, B. A. ★ Rings, fields, and vector spaces. (English summary) **99c:12001**
Tóth, Gábor[1] ★ Glimpses of algebra and geometry. (English summary) **99d:00002**

51–02 Research exposition (monographs, survey articles)

(Halperin, Israel) *see* **von Neumann, John, 99k:51001**
von Neumann, John ★ Continuous geometry. (English summary) **99k:51001**

Items with secondary classifications in 51–02

Kaiser, Mark J. The shapes of the future are here! (English summary) **99i:65157**
Marchi, Mario Comparison of the Peano and Hilbert systems of axioms in geometry. (Italian) (*see* **99a:00007**)

51–03 Historical (must also be assigned at least one classification number from Section 01)

Gindikin, S. G. The century of the cycloid.

Items with secondary classifications in 51–03

(Alt, Franz L.) *see* **Menger, Karl, 99j:01028**
Barlotti, A. Giuseppe Tallini and his work in combinatorial geometries. (*see* **99f:62005**)
Beckers, D. J. J. F. L. Schröder on the foundations of geometry: a case study of a failed attempt to obtain rigour in geometry in the Netherlands—1835. (English summary) **99g:01018**
Beltrami, Eugenio ★ La découverte de la géométrie non euclidienne sur la pseudosphère. (French) [The discovery of non-Euclidean geometry on the pseudosphere] **99j:01011**
Biermann, Kurt-R. "Ich bin im Innersten erschüttert": Neuer Versuch zur Aufklärung von Wachters Tod. ["I am profoundly shaken": New attempt at clarifying Wachter's death] **99h:01034**
(Boi, Luciano) *see* **Beltrami, Eugenio, 99j:01011**
Borgersen, Hans Erik (*with* Skau, Ivar H.) A closer look at Pascal's theorem. (Norwegian. English summary) **99b:01010**
Bos, Henk J. M. La structure de la *Géométrie* de Descartes. (English and French summaries) [The structure of Descartes's *Géométrie*] **99m:01010**
(Caveing, Maurice) *see* **Euclid, 99m:01004**
Cicenia, Salvatore The contribution of G. Battaglini to non-Euclidean geometry with an appendix of three of his unpublished letters to A. Genocchi. (Italian. English and Italian summaries) **99a:01013**
(Cini, Marcello) *see* **Russo, Lucio, 99g:01005**
(Dawson, J. W., Jr.) *see* **Menger, Karl, 99j:01028**
(Debreu, Gerard) *see* **Menger, Karl, 99j:01028**
(Descartes, René) *see* **Bos, Henk J. M., 99m:01010** *and* **Israel, Giorgio, 99m:01014**
(Dhombres, Jean) *see* **de Roberval, Gilles Personne, 99h:01024**
(Dierker, E.) *see* **Menger, Karl, 99j:01028**
(Engelking, R.) *see* **Menger, Karl, 99j:01028**
Etayo Miqueo, José Javier The reign of projective geometry. (Spanish) (*see* **98d:01003**)
Euclid ★ Les éléments. Vol. III. (French. French summary) [Elements. Vol. III] **99m:01004**
(Giacardi, Livia) *see* **Beltrami, Eugenio, 99j:01011**
Giering, Oswald Perlen der Geometrie. [Pearls of geometry] **99c:01003**
Götze, Heinz ★ Castel del Monte. **99k:01009**
Gray, Jeremy J. The foundations of geometry and the history of geometry. **99f:01013**
(Heiberg, Johan Ludvig) *see* **Euclid, 99m:01004**
Herreman, Alain Le statut de la géométrie dans quelques textes sur l'homologie, de Poincaré aux années 1930. (English and French summaries) [The status of geometry in various contributions on homology, from Poincaré to the 1930s] **99b:01016**
(Hildenbrand, W.) *see* **Menger, Karl, 99j:01028**
(Hoüel, Jules) *see* **Beltrami, Eugenio, 99j:01011**
(Houzel, Christian) *see* **Beltrami, Eugenio, 99j:01011**
Israel, Giorgio Des *Regulæ* à la *Géométrie*. (English and French summaries) [From the *Regulæ* to the *Géométrie*] **99m:01014**
(Jullien, Vincent) *see* **de Roberval, Gilles Personne, 99h:01024**
(Knobloch, Eberhard) *see* **Beltrami, Eugenio, 99j:01011**
Kreuzer, Alexander (*with* Kreuzer, Margarete) Zur Geschichte des Fluchtpunktes, des Fernpunktes und der projektiven Geometrie. [On the history of the vanishing point, of the point at infinity and of projective geometry] (*see* **99d:00011**)
Kreuzer, Margarete *see* **Kreuzer, Alexander, (99d:00011)**
Liu, Ke Ming (*with* Yang, Shu Zi) The history and contemporary significance of descriptive geometry: commemorating the 200th anniversary of the publication of Monge's *Descriptive geometry*. (Chinese)
Menger, Karl ★ Ergebnisse eines mathematischen Kolloquiums. (German) [Results of a mathematical colloquium] **99j:01028**
(Monge, Gaspard) *see* **Liu, Ke Ming**
Montesinos Amilibia, José María The question of the consistency of hyperbolic geometry. (Spanish) (*see* **98d:01004**)
de Roberval, Gilles Personne ★ *Éléments de géométrie* de G. P. de Roberval. (French. French summary) [G. P. de Roberval's *Elements of geometry*] **99h:01024**
Russo, Lucio ★ La rivoluzione dimenticata. (Italian) [The forgotten revolution] **99g:01005**
(Schäfer, Mary) *see* **Götze, Heinz, 99k:01009**
Schempp, Walter Johannes Zu Kepplers Conchoid-Konstruktion. (English summary) [On Keppler's conchoid construction] **99f:01009**
(Schröder, J. F. L.) *see* **Beckers, D. J., 99g:01018**
(Sigmund, Karl) *see* **Menger, Karl, 99j:01028**
Skau, Ivar H. *see* **Borgersen, Hans Erik, 99b:01010**
Stump, David J. Reconstructing the unity of mathematics circa 1900. (English summary) **99e:00007**
(Tallini, Giuseppe) *see* **Barlotti, A., (99f:62005)**
(Tazzioli, Rossana) *see* **Beltrami, Eugenio, 99j:01011**
(Vitrac, Bernard) *see* **Euclid, 99m:01004**
(Wachter, Friedrich Ludwig) *see* **Biermann, Kurt-R., 99h:01034**
Yang, Shu Zi *see* **Liu, Ke Ming**
Zhang, Jing Zhong Twenty years of mechanical theorem proving in geometry. (Chinese)

Items listed otherwise than by author

Biography:
Menger, Karl *see* **Menger, Karl, 99j:01028**
Correspondence:
Beltrami, Eugenio–Hoüel, Jules *see* **Beltrami, Eugenio, 99j:01011**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

Karger, Adolf Classical geometry and computers. (English summary) **99f:51036**

51–06 Proceedings, conferences, collections, etc.

(Beutelspacher, Albrecht) *see* **Finite geometry and combinatorics, 99a:51001**
(Blokhuis, Aart) *see* **Finite geometry and combinatorics, 99a:51001**
(Buekenhout, Francis) *see* **Finite geometry and combinatorics, 99a:51001**
(De Clerck, Frank) *see* **Finite geometry and combinatorics, 99a:51001**
(Doyen, Jean) *see* **Finite geometry and combinatorics, 99a:51001**
(Haemers, Willem H.) *see* **Finite geometry and combinatorics, 99a:51001**
(Hirschfeld, J. W. P.) *see* **Finite geometry and combinatorics, 99a:51001**
(Kantor, William M.) *see* **Groups and geometries, 99c:51004**
(Keller, Hans Arwed) *see* **Orthogonal geometry in infinite-dimensional vector spaces, 99e:51001**
(Künzi, Urs-Martin) *see* **Orthogonal geometry in infinite-dimensional vector spaces, 99e:51001**
(Lunardon, Guglielmo) *see* **Groups and geometries, 99c:51004**
(di Martino, Lino) *see* **Groups and geometries, 99c:51004**
(Pasini, Antonio) *see* **Groups and geometries, 99c:51004**
(Tamburini Bellani, Maria Chiara) *see* **Groups and geometries, 99c:51004**
(Thas, Joseph Adolphe) *see* **Finite geometry and combinatorics, 99a:51001**
(Van Maldeghem, Hendrik) *see* **Finite geometry and combinatorics, 99a:51001**
(Wild, Marcel) *see* **Orthogonal geometry in infinite-dimensional vector spaces, 99e:51001**

Items listed otherwise than by author

Conference:
Finite Geometry and Combinatorics ★ Finite geometry and combinatorics. **99a:51001**
Groups and Geometries ★ Groups and geometries. **99c:51004**
Deinze ★ Finite geometry and combinatorics. **99a:51001**
Finite geometry and combinatorics ★ Finite geometry and combinatorics. **99a:51001**
Groups and geometries ★ Groups and geometries. **99c:51004**
Orthogonal geometry in infinite-dimensional vector spaces ★ Orthogonal geometry in infinite-dimensional vector spaces. **99e:51001**
Siena ★ Groups and geometries. **99c:51004**

Items with secondary classifications in 51–06

Combinatorics '98 ★ Combinatorics '98. **99c:00012**
Combinatorics '98 ★ Combinatorics '98. **99c:00012**
Mondello ★ Combinatorics '98. **99c:00012**

51Axx Linear incidence geometry

51A05 General theory and projective geometries

André, Johannes Correction: "On generalized projective spaces operating on sets" [J. Geom. **59** (1997), no. 1-2, 15–31; MR 98g:51001]. **99e:51002**

Eggar, M. H. Pinhole cameras, perspective, and projective geometry. **99f:51004**
Grešák, Pavol (*with* Kaštieľ, Matej; Kateřiňák, Josef; Šedivý, Ondrej) A remark to the dimension equation for the intersection and union of two subspaces of an incidence space. (English summary)
Kaštieľ, Matej *see* **Grešák, Pavol; et al.**
Kateřiňák, Josef *see* **Grešák, Pavol; et al.**
Kvirikashvili, T. G. On a generalization of the fundamental theorem of projective geometry. (Russian. English and Georgian summaries)
Lin, Yi Mou The geometry of Lie's circles and the projective polar. (Chinese. English and Chinese summaries) **99d:51001**
Pfeiffer, Thorsten Pappus' theorem for ring-geometries. (English summary) **99k:51002**
Rao, Annaswami Ranganatha Cyclic perspectivity. (English summary)
Šedivý, Ondrej *see* **Grešák, Pavol; et al.**
Taniguchi, Hiroaki On embeddings of projective spaces. (English summary) **99i:51001**

Items with secondary classifications in 51A05

Brehm, Ulrich (*with* Et-Taoui, Boumediene) Congruence criteria for finite subsets of complex projective and complex hyperbolic spaces. (English summary) **99e:51021**
Chubarev, Alexander (*with* Pinelis, Iosif) Fundamental theorem of geometry without the 1-to-1 assumption. (English summary) **99m:51002**
Et-Taoui, Boumediene *see* **Brehm, Ulrich, 99e:51021**
Gorjanc, Sonja Quartic inversion in space and some of its products. (English and Croatian summaries) **99f:51034**
Pinelis, Iosif *see* **Chubarev, Alexander, 99m:51002**

51A10 Homomorphism, automorphism and dualities

Saltzwedel, Martin On characterizing injective lineations in Desarguesian affine spaces. (English summary) **99m:51001**

Items with secondary classifications in 51A10

Bhattarai, H. N. Decomposition of Lt-connected geometries and generalized projective spaces. (English summary) **99f:51025**
Faure, Claude-Alain (*with* Frölicher, Alfred) Categorical aspects in projective geometry. (English summary) **99k:18008**
Frölicher, Alfred *see* **Faure, Claude-Alain, 99k:18008**
Kreher, D. L. (*with* Stinson, Douglas R.; Zhu, Lie[1]) On the maximum number of fixed points in automorphisms of prime order of 2-$(v, k, 1)$ designs. (English summary) **99d:05010**
Pfeiffer, Thorsten Pappus' theorem for ring-geometries. (English summary) **99k:51002**
Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Divisible designs admitting a Suzuki group as an automorphism group. (Italian summary) **99m:05041**
Spera, Antonino Giorgio *see* **Schulz, Ralph-Hardo, 99m:05041**
Stinson, Douglas R. *see* **Kreher, D. L.; et al., 99d:05010**
Stroppel, Markus A characterization of quaternion planes, revisited. (English summary) **99m:51024**
Tallini, Giuseppe Composed designs. (English summary) **99m:51005**
Zhu, Lie[1] *see* **Kreher, D. L.; et al., 99d:05010**

51A15 Structures with parallelism

Chubarev, Alexander (*with* Pinelis, Iosif) Fundamental theorem of geometry without the 1-to-1 assumption. (English summary) **99m:51002**
Johnson, Norman Lloyd[1] Derivable nets may be embedded in nonderivable planes. (English summary) **99j:51001**
Pinelis, Iosif *see* **Chubarev, Alexander, 99m:51002**

Items with secondary classifications in 51A15

Glynn, David G. A survey of cone representations. (English summary) **99k:51008**

51A20 Configuration theorems

Mazurovskiĭ, V. F. Nonsingular configurations of at most five $2n$-dimensional subspaces of the projective space RP^{4n+1}. (Russian. Russian summary) **99a:51002**

Items with secondary classifications in 51A20

Betten, Anton (*with* Betten, Dieter) Linear spaces with at most 12 points. (English summary) **99m:05034**
Betten, Dieter *see* **Betten, Anton, 99m:05034**
Casse, Louis Reynolds Antoine (*with* Quinn, Catherine T.) The Bruck-Bose map and Beukenhout-Metz unitals. (English summary) **99k:51007**
Grünbaum, Branko (*with* Shephard, G. C.) Some new transversality properties. (English summary) **99i:51017**
Günaltılı, İ. (*with* Olgun, Ş.) On some configurational propositions connected with the minor forms of Desargues. (English summary) **99d:51002**
Kreuzer, Alexander On isomorphisms of Grassmann spaces. (English summary) **99g:51001**
Olgun, Ş. *see* **Günaltılı, İ., 99d:51002**
Quinn, Catherine T. *see* **Casse, Louis Reynolds Antoine, 99k:51007**
Shephard, G. C. *see* **Grünbaum, Branko, 99i:51017**
Xu, Yin-Feng (*with* You, Zhao Yong) An $O(n^2 \log n)$ algorithm for finding all strongly visible pairs of points of a finite planar point set. (Chinese. English summary)
You, Zhao Yong *see* **Xu, Yin-Feng**

51A25 Algebraization [see also 12Kxx, 20N05]

Klucký, Dalibor (*with* Marková, Libuše) Coordinatization of projective planes by special planar ternary rings. (English summary) **99f:51005**
Marková, Libuše *see* **Klucký, Dalibor, 99f:51005**

Items with secondary classifications in 51A25

Chubarev, Alexander (*with* Pinelis, Iosif) Fundamental theorem of geometry without the 1-to-1 assumption. (English summary) **99m:51002**
Im, Bokhee Kinematic structures of certain loops. (English summary) **99h:20103**
Pinelis, Iosif *see* **Chubarev, Alexander, 99m:51002**
Saltzwedel, Martin On characterizing injective lineations in Desarguesian affine spaces. (English summary) **99m:51001**

51A30 Desarguesian and Pappian geometries

Günaltılı, İ. (*with* Olgun, Ş.) On some configurational propositions connected with the minor forms of Desargues. (English summary) **99d:51002**
Heimbeck, Günter Partitions of three-dimensional Pappian projective spaces by ovoidal quadrics. (English summary) **99e:51003**
Olgun, Ş. *see* **Günaltılı, İ., 99d:51002**

Items with secondary classifications in 51A30

Coxeter, H. S. M. Numerical distances among the circles in a loxodromic sequence. (English summary) **99i:51019**
Hadnagy, Éva Small complete arcs in PG$(2, p)$. (English summary) **99m:51012**
Hirschfeld, J. W. P. ★ Projective geometries over finite fields. **99b:51006**
Palej, Marian A simple proof for the theorems of Pascal and Pappus. (English summary) **99c:51030**
Saltzwedel, Martin On characterizing injective lineations in Desarguesian affine spaces. (English summary) **99m:51001**

51A35 Non-Desarguesian affine and projective planes

Bálint, Vojtech (*with* Grešák, Pavol; Kaštieľ, Matej; Kateřiňák, Josef) The proof of the isomorphism of the n-dimensional projective spaces defined axiomatically. (English summary) **99m:51003**
Benz, Walter (*with* Ghalieh, Khuloud) Groupoids associated with the ternary ring of a projective plane. **99b:51001**
Ghalieh, Khuloud *see* **Benz, Walter, 99b:51001**
Grešák, Pavol *see* **Bálint, Vojtech; et al., 99m:51003**
Kaštieľ, Matej *see* **Bálint, Vojtech; et al., 99m:51003**
Kateřiňák, Josef *see* **Bálint, Vojtech; et al., 99m:51003**

Items with secondary classifications in 51A35

Betten, Dieter (*with* Im, Jang-Hwan) 4-dimensional projective planes with a 3-dimensional elation group. (English summary) **99b:51010**
Bödi, Richard 16-dimensional smooth projective planes with large collineation groups. (English summary) **99m:51025**
Brown, Julia M. Nowlin A remark on a construction of Grundhöfer. (English summary) **99c:51008**
Enea, Maria Rosaria (*with* Korchmáros, Gábor) $\mathcal{F}$-transitive ovals in projective planes of odd order. (English summary) **99j:51009**
Hamilton, Nicholas *see* **de Resmini, Marialuisa J., 99b:51008**
Im, Jang-Hwan *see* **Betten, Dieter, 99b:51010**
Johnson, Norman Lloyd[1] Infinite nests of reguli. (English summary) **99d:51016**
Killgrove, R. (*with* Sternfeld, R.; Tamez, R.) Quadrangle completions and the anti-Desargues configuration. **99b:05026**
Korchmáros, Gábor *see* **Enea, Maria Rosaria, 99j:51009**
de Resmini, Marialuisa J. (*with* Hamilton, Nicholas) Hyperovals and unitals in Figueroa planes. (English summary) **99b:51008**
Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Divisible designs admitting a Suzuki group as an automorphism group. (Italian summary) **99m:05041**
Spera, Antonino Giorgio *see* **Schulz, Ralph-Hardo, 99m:05041**
Sternfeld, R. *see* **Killgrove, R.; et al., 99b:05026**
Tamez, R. *see* **Killgrove, R.; et al., 99b:05026**
Wantz, Kenneth L. A new class of unitals in the Hughes plane. (English summary) **99c:51014**

51A40 Translation planes and spreads

Items with secondary classifications in 51A40

Bödi, Richard Collineations of smooth stable planes. (English summary) **99i:51015**
Glynn, David G. A survey of cone representations. (English summary) **99k:51008**
Johnson, Norman Lloyd[1] Infinite nests of reguli. (English summary) **99d:51016**
Penttila, Tim (*with* Williams, Blair) Regular packings of PG$(3, q)$. (English summary) **99k:51011**
Pieper-Seier, Irene *see* **Spille, Bianca, 99h:17001**
Spille, Bianca (*with* Pieper-Seier, Irene) On strong isotopy of Dickson semifields and geometric implications. (English summary) **99h:17001**
Williams, Blair *see* **Penttila, Tim, 99k:51011**

51A45 Incidence structures imbeddable into projective geometries

Biondi, Paola An embedding theorem for finite planar spaces. (English summary) **99i:51002**
Kreuzer, Alexander On isomorphisms of Grassmann spaces. (English summary) **99g:51001**

Items with secondary classifications in 51A45

Brehm, Ulrich (*with* Et-Taoui, Boumediene) Congruence criteria for finite subsets of complex projective and complex hyperbolic spaces. (English summary) **99e:51021**
Brouwer, Andries E. Linear spaces of quadrics and new good codes. (English summary) **99j:94073**
Chubarev, Alexander (*with* Pinelis, Iosif) Fundamental theorem of geometry without the 1-to-1 assumption. (English summary) **99m:51002**

Et-Taoui, Boumediene *see* **Brehm, Ulrich**, **99e:51021**
Glynn, David G. A survey of cone representations. (English summary) **99k:51008**
Johnson, Norman Lloyd[1] Derivable nets may be embedded in nonderivable planes. (English summary) **99j:51001**
Lunardon, Guglielmo An approach to semifield flocks. (English summary) **99d:51009**
Pinelis, Iosif *see* **Chubarev, Alexander**, **99m:51002**
Steinbach, Anja Ingrid Generalized quadrangles with a thick hyperbolic line weakly embedded in projective space. (English summary) **99h:51003**
Tallini, Giuseppe Composed designs. (English summary) **99m:51005**
Wantz, Kenneth L. A new class of unitals in the Hughes plane. (English summary) **99c:51014**

51A50 Polar geometry, symplectic spaces, orthogonal spaces

Fuelberth, John (*with* Gunawardena, Athula) 4-caps in orthogonal spaces. (English summary) **99b:51002**
Gunawardena, Athula *see* **Fuelberth, John**, **99b:51002**
Ivanov, Aleksandr Anatol'evich Flag-transitive extensions of dual polar spaces. (Russian) **99m:51004**
Polster, Burkard (*with* Schroth, Andreas E.) Plane models of semi-biplanes. (English summary) **99c:51005**
Schroth, Andreas E. *see* **Polster, Burkard**, **99c:51005**
Thas, Joseph Adolphe (*with* Van Maldeghem, Hendrik) Sub-weakly embedded singular and degenerate polar spaces. (English summary) **99a:51003**
Van Maldeghem, Hendrik *see* **Thas, Joseph Adolphe**, **99a:51003**

Items with secondary classifications in 51A50

Steinbach, Anja Ingrid Generalized quadrangles with a thick hyperbolic line weakly embedded in projective space. (English summary) **99h:51003**

51A99 None of the above, but in this section

Kvirikashvili, T. G. The fundamental theorem of affine geometry over rings. (Russian. English and Georgian summaries)

Items with secondary classifications in 51A99

Fisher, J. Chris (*with* Ruoff, Dieter) A hyperbolic concurrency theorem. (English summary) **99b:51013**
Lashkhi, A. A. The fundamental theorem of projective geometry in Lie algebras. (Russian. English and Georgian summaries)
Ray, Asok Kumar[1] Proposed duals of multivectors and their geometrical interpretations. (English summary) **99h:15028**
Ruoff, Dieter *see* **Fisher, J. Chris**, **99b:51013**

51Bxx Nonlinear incidence geometry

51B05 General theory

Herzer, Armin Kennzeichnung von Berührstrukturen, die Kettengeometrien sind. (English summary) [Characterization of contact structures which are chain geometries] **99d:51003**

Items with secondary classifications in 51B05

Machala, František (*with* Slezák, Vladimír) Incidence structures and closure spaces. (English summary) **99f:06009**
Polster, Burkard (*with* Schroth, Andreas E.) Plane models of semi-biplanes. (English summary) **99c:51005**
Schroth, Andreas E. *see* **Polster, Burkard**, **99c:51005**
Slezák, Vladimír *see* **Machala, František**, **99f:06009**

51B10 Möbius geometries

Aharonov, Dov An invariant generalization of the Mauldon inclination theorem. **99b:51003**
Ueberberg, Johannes Möbiusebenen oder Die Geometrie der Kugel. [Möbius planes or The geometry of the sphere] **99i:51003**

Items with secondary classifications in 51B10

Glynn, David G. Plane representations of ovoids. (English summary) **99g:51006**
Heimbeck, Günter Partitions of three-dimensional Pappian projective spaces by ovoidal quadrics. (English summary) **99e:51003**
Meignen, Pierrick Generating series for the Coxeter groups and applications. (English summary) **99e:20051**
Penttila, Tim (*with* Praeger, Cheryl E.) Ovoids and translation ovals. **99h:51010**
Praeger, Cheryl E. *see* **Penttila, Tim**, **99h:51010**

51B15 Laguerre geometries

Bröcker, Olaf A non-Miquelian Laguerre plane satisfying a theorem of Miquelian type. (English summary) **99a:51004**
Kaya, Rüstem *see* **Soytürk, Emine**, **99b:51004**
Schroth, Andreas E. Ovoidal Laguerre planes are weakly Miquelian. (English summary) **99k:51003**
Soytürk, Emine (*with* Kaya, Rüstem) On a Laguerre inversion. (English summary) **99b:51004**

Items with secondary classifications in 51B15

Höfer, Roland On the geometry of hyperbolic cycles. (English summary) **99i:51005**

51B20 Minkowski geometries

Jakóbowski, Jan A new construction for Minkowski planes. (English summary) **99i:51004**
Polster, Burkard (*with* Schroth, Andreas E.) Halbe Doppeldecker—anschauliche Modelle von Semibiplanes. [Graphic models of semibiplanes] (*see* **99a:00018**)
Schroth, Andreas E. *see* **Polster, Burkard**, (**99a:00018**)

Items with secondary classifications in 51B20

Bahn, Hyoungsick (*with* Hong, Sungpyo) Isoperimetric inequalities for sectors in the Minkowski 2-spacetime. (English summary) **99k:51024**
Hong, Sungpyo *see* **Bahn, Hyoungsick**, **99k:51024**
Polster, Burkard Toroidal circle planes that are not Minkowski planes. (English summary) **99i:51014**

51B25 Lie geometries

Höfer, Roland On the geometry of hyperbolic cycles. (English summary) **99i:51005**

Items with secondary classifications in 51B25

Abels, Herbert A projection property for buildings. (English summary) **99j:18002**
Abramenko, Peter (*with* Ronan, Mark) A characterization of twin buildings by twin apartments. (English summary) **99m:51016**
Ronan, Mark *see* **Abramenko, Peter**, **99m:51016**

51B99 None of the above, but in this section

Items with secondary classifications in 51B99

Benz, Walter Translation equation and some new geometries. (English summary) **99d:51020**

51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Boskoff, Vladimir S-Riemannian manifolds and Barbilian spaces. (English summary)
Chvál, Viliam (*with* Jurga, Rastislav) Tangents of conics in Hjelmslev planes over a local ring of even characteristic. (English summary) **99f:51006**
D'Ortona, Catherine Moore Homomorphisms of projective remoteness planes. (English summary) **99j:51002**
Jukl, Marek Desargues theorem for Klingenberg projective plane over certain local ring. (English summary)
Jurga, Rastislav *see* **Chvál, Viliam**, **99f:51006**
Kemkhadze, S. Geometries which are connected with general geometric lattices. (English summary)

Items with secondary classifications in 51C05

Bhattarai, H. N. Decomposition of Lt-connected geometries and generalized projective spaces. (English summary) **99f:51025**
Jurga, Rastislav Some combinatorial results on the classification of lines in Desarguesian Hjelmslev planes. (English summary) **99e:51011**
Rosenfeld, B. A. Geometry of planes over nonassociative algebras. (English summary) **99e:51012**
Van Maldeghem, Hendrik (*with* Van Steen, K.) Characterizations by automorphism groups of some rank 3 buildings. I. Some properties of half strongly-transitive triangle buildings. (English summary) **99m:51019**
Van Steen, K. *see* **Van Maldeghem, Hendrik**, **99m:51019**

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Items with secondary classifications in 51D10

André, Johannes Correction: "On generalized projective spaces operating on sets" [J. Geom. **59** (1997), no. 1-2, 15–31; MR 98g:51001]. **99e:51002**

51D20 Combinatorial geometries [see also 05B25, 05B35]

Bonin, Joseph E. (*with* Kung, Joseph P. S.) The number of points in a combinatorial geometry with no 8-point-line minors. (English summary) **99g:51002**
Kung, Joseph P. S. *see* **Bonin, Joseph E.**, **99g:51002**

Items with secondary classifications in 51D20

Abels, Herbert A projection property for buildings. (English summary) **99j:18002**
Brown, Matthew R. Semipartial geometries and generalized quadrangles of order (r, r^2). (English summary) **99f:51008**
Dickmann, M. A. A combinatorial geometric structure on the space of orders of a field. I. (English summary) **99c:05043**

51D99 None of the above, but in this section

Items with secondary classifications in 51D99

Lashkhi, A. A. D-geometrical lattices and their embedding. (Russian and Georgian summaries) **99m:06016**

51Exx Finite geometry and special incidence structures

Items with secondary classifications in 51Exx

Ábrego Lerma, Bernardo Manuel ★ Problemas combinatorios sobre conjuntos finitos de puntos. (Spanish. Spanish summary) [Combinatorial problems on finite sets of points] **99h:05002**

Batten, Lynn Margaret ★ Combinatorics of finite geometries. (English summary) **99c:51001**

51E05 General block designs [see also 05B05]

Tallini, Giuseppe Composed designs. (English summary) **99m:51005**

Items with secondary classifications in 51E05

Colbourn, Charles J. (*with* Gibbons, Peter B.) Uniform orthogonal group divisible designs with block size three. (English summary) **99g:05027**

Gibbons, Peter B. *see* **Colbourn, Charles J., 99g:05027**

Jeong, Dal-Young The existence of (n, r, t, k)-arrangements. (English summary) **99m:05021**

Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Construction of divisible designs from translation planes. (English summary) **99i:05032**

Spera, Antonino Giorgio *see* **Schulz, Ralph-Hardo, 99i:05032**

51E10 Steiner systems

Rajola, Sandro Designs in Steiner systems and nonregular hyperovals in PG$(2, q)$. (Italian. English summary) **99f:51007**

Items with secondary classifications in 51E10

Buratti, Marco (*with* Zuanni, Fulvio) G-invariantly resolvable Steiner 2-designs which are 1-rotational over G. (English summary) **99k:05026**

Colbourn, Charles J. (*with* Ling, Alan C. H.) Point code minimum Steiner triple systems. (English summary) **99b:05020**

Ling, Alan C. H. *see* **Colbourn, Charles J., 99b:05020**

Tallini, Giuseppe Composed designs. (English summary) **99m:51005**

Zannetti, Mauro Note on a characterization of projective planes. (English summary) **99e:51007**

Zuanni, Fulvio *see* **Buratti, Marco, 99k:05026**

51E12 Generalized quadrangles, generalized polygons

Bader, Laura (*with* Payne, Stanley E.) On infinite K-clan geometry. (English summary) **99k:51004**

Bloemen, I. (*with* Thas, Joseph Adolphe; Van Maldeghem, Hendrik) Translation ovoids of generalized quadrangles and hexagons. (English summary) **99h:51001**

Blokhuis, Aart (*with* O'Keefe, Christine M.; Payne, Stanley E.; Storme, Leo; Wilbrink, Henny) Covers of PG$(3, q)$ and of finite generalized quadrangles. (English summary) **99d:51004**

Brouns, Leen (*with* Tent, Katrin; Van Maldeghem, Hendrik) Groups of projectivities of generalized quadrangles. (English summary) **99m:51006**

Brown, Matthew R. Semipartial geometries and generalized quadrangles of order (r, r^2). (English summary) **99f:51008**

Cuypers, Hans (*with* Steinbach, Anja Ingrid) Weak embeddings of generalized hexagons and groups of type G_2. (English summary) **99j:51003**

Grundhöfer, T. Flag-homogeneous generalized polygons. **99f:51009**

Joswig, Michael Isotopy of polygonal domains for generalized polygons. (English summary) **99a:51005**

— Correction: "Generalized polygons with highly transitive collineation groups" [Geom. Dedicata **58** (1995), no. 1, 91–100; MR 96g:51018]. (English summary) **99h:51002**

Kramer, Linus Octonion Hermitian quadrangles. (English summary) **99g:51003**

Löwe, Stefan Fourgonal extensions. (English summary) **99a:51006**

— On embeddings of Ahrens-Szekeres generalized quadrangles. (English summary) **99a:51007**

Miller, M. A. *see* **Payne, Stanley E., 99j:51005**

Narasimha Sastry, N. S. (*with* Sin, Peter) The code of a regular generalized quadrangle of even order. **99c:51006**

O'Keefe, Christine M. *see* **Blokhuis, Aart; et al., 99d:51004**

Payne, Stanley E. A problem on generalized quadrangles. (English summary) **99j:51004**

— (*with* Miller, M. A.) Collineations and characterizations of generalized quadrangles of order $(q + 1, q - 1)$. (English summary) **99j:51005**

— *see also* **Blokhuis, Aart; et al., 99d:51004** *and* **Bader, Laura, 99k:51004**

Polster, Burkard (*with* Schroth, Andreas E.) Split semi-biplanes in antiregular generalized quadrangles. (English summary) **99b:51005a**

— (*with* Schroth, Andreas E.) Errata: "Split semi-biplanes in antiregular generalized quadrangles". **99b:51005b**

Schroth, Andreas E. *see* **Polster, Burkard, 99b:51005a** *and* **99b:51005b**

Sin, Peter *see* **Narasimha Sastry, N. S., 99c:51006**

Steinbach, Anja Ingrid Generalized quadrangles arising from groups generated by abstract transvection groups. (English summary) **99k:51005**

— Generalized quadrangles with a thick hyperbolic line weakly embedded in projective space. (English summary) **99h:51003**

— *see also* **Cuypers, Hans, 99j:51003**

Storme, Leo *see* **Blokhuis, Aart; et al., 99d:51004**

Tent, Katrin *see* **Brouns, Leen; et al., 99m:51006**

Thas, Joseph Adolphe Generalized quadrangles of order (s, s^2). II. **99e:51004**

— Some new classes of extended generalized quadrangles of order $(q + 1, q - 1)$. (English summary) **99f:51010**

— (*with* Van Maldeghem, Hendrik) Flat lax and weak lax embeddings of finite generalized hexagons. (English summary) **99k:51006**

— 3-regularity in generalized quadrangles: a survey, recent results and the solution of a longstanding conjecture. (English summary) **99h:51004**

— *see also* **Bloemen, I.; et al., 99h:51001**

Van Maldeghem, Hendrik Ovoids and spreads arising from involutions. (English summary) **99h:51005**

— Some consequences of a result of Brouwer. (English summary) **99d:51005**

— On the dimensions of the root groups of full subquadrangles of Moufang quadrangles arising from algebraic groups. (English summary) **99e:51005**

— *see also* **Bloemen, I.; et al., 99h:51001**; **Thas, Joseph Adolphe, 99k:51006** *and* **Brouns, Leen; et al., 99m:51006**

Wilbrink, Henny *see* **Blokhuis, Aart; et al., 99d:51004**

Yoshiara, Satoshi The universal covers of a family of extended generalized quadrangles. (English summary) **99j:51006**

Items with secondary classifications in 51E12

Bader, Laura (*with* O'Keefe, Christine M.) Arcs and ovals in infinite K-clan geometry. (English summary) **99d:51011**

Glynn, David G. Plane representations of ovoids. (English summary) **99g:51006**

Makhnëv, A. A. On pseudogeometric graphs of some partial geometries. (Russian. English summary) **99j:05198**

— (*with* Paduchikh, D. V.) On the structure of connected locally GQ(3, 9)-graphs. (Russian. Russian summary) **99m:05138**

Meixner, Thomas On Weiss' geometric characterization of the Rudvalis simple group. (English summary) **99c:20014**

O'Keefe, Christine M. *see* **Bader, Laura, 99d:51011**

Paduchikh, D. V. *see* **Makhnëv, A. A., 99m:05138**

Penttila, Tim (*with* Royle, Gordon F.) BLT-sets over small fields. (English summary) **99g:05043**

— (*with* Storme, Leo) Monomial flocks and herds containing a monomial oval. (English summary) **99e:51008**

Polster, Burkard (*with* Schroth, Andreas E.) Plane models of semi-biplanes. (English summary) **99c:51005**

Royle, Gordon F. *see* **Penttila, Tim, 99g:05043**

Schroth, Andreas E. *see* **Polster, Burkard, 99c:51005**

Storme, Leo *see* **Penttila, Tim, 99e:51008**

Thas, Joseph Adolphe Embeddings of geometries in finite projective spaces: a survey. (English summary) **99h:51006**

51E14 Finite partial geometries (general), nets, partial spreads

De Clerck, Frank New partial geometries constructed from old ones. (English summary) **99m:51007**

Di Gennaro, Fernando (*with* Eugeni, Franco) Pseudo-Euclidean structures on Galois fields. (Italian. English summary) **99c:51007**

Eugeni, Franco *see* **Di Gennaro, Fernando, 99c:51007**

Hiramine, Yutaka (*with* Johnson, Norman Lloyd[1]) Nets of order p^2 and degree $p + 1$ admitting SL$(2, p)$. (English summary) **99g:51004**

Johnson, Norman Lloyd[1] *see* **Hiramine, Yutaka, 99g:51004**

Thas, Joseph Adolphe Embeddings of geometries in finite projective spaces: a survey. (English summary) **99h:51006**

Items with secondary classifications in 51E14

Blokhuis, Aart (*with* O'Keefe, Christine M.; Payne, Stanley E.; Storme, Leo; Wilbrink, Henny) Covers of PG$(3, q)$ and of finite generalized quadrangles. (English summary) **99d:51004**

Brown, Matthew R. Semipartial geometries and generalized quadrangles of order (r, r^2). (English summary) **99f:51008**

Dougherty, Steven T. Planes, nets, and codes. **99f:51012**

Glynn, David G. On cubic curves in projective planes of characteristic two. (English summary) **99f:51014**

Lunardon, Guglielmo An approach to semifield flocks. (English summary) **99d:51009**

O'Keefe, Christine M. *see* **Blokhuis, Aart; et al., 99d:51004**

Payne, Stanley E. *see* **Blokhuis, Aart; et al., 99d:51004**

Storme, Leo *see* **Blokhuis, Aart; et al., 99d:51004**

Wilbrink, Henny *see* **Blokhuis, Aart; et al., 99d:51004**

51E15 Affine and projective planes

Blokhuis, Aart (*with* Hamilton, Nicholas; Wilbrink, Henny) On the non-existence of Thas maximal arcs in odd order projective planes. (English summary) **99f:51011**

Brown, Julia M. Nowlin A remark on a construction of Grundhöfer. (English summary) **99c:51008**

Bruen, Aiden A. (*with* Haddad, Lucien; Wehlau, David L.) Intersection-sets in PG$(n, 2)$. (English summary) **99c:51009**

Cooperstein, B. N. External flats to varieties in $\mathbf{PG}(\wedge^2(V))$ over finite fields. (English summary) **99c:51010**

Dougherty, Steven T. Planes, nets, and codes. **99f:51012**

Ebert, G. L. Partitioning problems and flag-transitive planes. (English summary) **99h:51007**

Eisfeld, Jörg On pairs of Baer subplanes in PG$(2, q^2)$. (English summary) **99j:51007**

Fisher, J. Chris Frobenius orbits. **99h:51008**

Glynn, David G. The classification of projective planes of order q^3 with cone-representations in PG$(6, q)$. (English summary) **99d:51006**

Haddad, Lucien *see* **Bruen, Aiden A.; et al., 99c:51009**

Hamilton, Nicholas *see* **Blokhuis, Aart; et al., 99f:51011**

Hirschfeld, J. W. P. ★ Projective geometries over finite fields. **99b:51006**

Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Finite doubly transitive affine planes. (English summary) **99d:51007**

Johnson, Norman Lloyd[1] *see* **Jha, Vikram, 99d:51007**

Moorhouse, G. Eric Ovoids and translation planes from lattices. (English summary) **99i:51006**

Nakagawa, Nobuo Left cyclic planar functions of degree p^n. (English summary) **99c:51011**

Oryszczyszyn, Henryk (*with* Prażmowski, Krzysztof) On projections in projective spaces. **99c:51012**
Prażmowski, Krzysztof *see* **Oryszczyszyn, Henryk**, **99c:51012**
de Resmini, Marialuisa J. On the Mathon plane. (English summary) **99e:51006**
Thas, Joseph Adolphe Finite geometries, varieties and codes. (English summary) **99m:51008**
Wehlau, David L. *see* **Bruen, Aiden A.; et al.**, **99c:51009**
Wilbrink, Henny *see* **Blokhuis, Aart; et al.**, **99f:51011**
Zannetti, Mauro Note on a characterization of projective planes. (English summary) **99e:51007**

Items with secondary classifications in 51E15

Beutelspacher, Albrecht What is a spread? (*see* **99c:00012**)
Fuhrmann, Rainer (*with* Torres, Fernando) On Weierstrass points and optimal curves. **99e:11081**
Hirschfeld, J. W. P. (*with* Korchmáros, Gábor) On the number of rational points on an algebraic curve over a finite field. (English summary) **99e:11082**
Korchmáros, Gábor *see* **Hirschfeld, J. W. P.**, **99e:11082**
McGuire, Gary (*with* Ward, Harold N.) The weight enumerator of the code of the projective plane of order 5. (English summary) **99j:94068**
Penttila, Tim Regular cyclic BLT-sets. (English summary) **99i:51008**
Rajola, Sandro (*with* Scafati Tallini, Maria) Blocking sets of small size and colourings in finite affine planes. (English summary) **99m:51014**
Scafati Tallini, Maria *see* **Rajola, Sandro**, **99m:51014**
Thas, Joseph Adolphe Embeddings of geometries in finite projective spaces: a survey. (English summary) **99h:51006**
Torres, Fernando *see* **Fuhrmann, Rainer**, **99e:11081**
Ward, Harold N. *see* **McGuire, Gary**, **99j:94068**

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Biondi, Paola A common characterization of ovoids and nonsingular ruled quadrics in PG(d, n). (English summary) **99i:51007**
Bruen, Aiden A. (*with* Drudge, Keldon) On the non-existence of certain Cameron-Liebler line classes in PG$(3, q)$. (English summary) **99b:51007**
Casse, Louis Reynolds Antoine (*with* Quinn, Catherine T.) The Bruck-Bose map and Beukenhout-Metz unitals. (English summary) **99k:51007**
Cherowitzo, William E. Monomial flocks of monomial cones in even characteristic. (English summary) **99g:51005**
Drudge, Keldon *see* **Bruen, Aiden A.**, **99b:51007**
Ferrara Dentice, Eva (*with* Lo Re, Pia Maria; Melone, Nicola) Tallini set and Grassmannian. (Italian. English summary) **99f:51013**
Ferri, Stefania Combinatorial properties characterizing elliptic quadrics in PG$(3, q)$. (Italian. English summary) **99d:51008**
Glynn, David G. On cubic curves in projective planes of characteristic two. (English summary) **99f:51014**
— Plane representations of ovoids. (English summary) **99g:51006**
— A survey of cone representations. (English summary) **99k:51008**
Havlicek, Hans The Veronese surface in PG$(5, 3)$ and Witt's 5-$(12, 6, 1)$ design. (English summary) **99m:51009**
Hirschfeld, J. W. P. Curves and configurations in finite spaces. (English summary) **99f:51015**
Jaffe, David B. (*with* Tonchev, Vladimir D.) Computing linear codes and unitals. (English summary) **99a:51008**
Kreuzer, Alexander Projective embedding of projective spaces. (English summary) **99h:51009**
Lo Re, Pia Maria *see* **Ferrara Dentice, Eva; et al.**, **99f:51013**
Lunardon, Guglielmo An approach to semifield flocks. (English summary) **99d:51009**
Melone, Nicola *see* **Ferrara Dentice, Eva; et al.**, **99f:51013**
Metsch, Klaus The sets closest to ovoids in $Q^-(2n+1, q)$. **99d:51010**
Penttila, Tim (*with* Storme, Leo) Monomial flocks and herds containing a monomial oval. (English summary) **99e:51008**
— Regular cyclic BLT-sets. (English summary) **99i:51008**
Quinn, Catherine T. *see* **Casse, Louis Reynolds Antoine**, **99k:51007**
Royle, Gordon F. An orderly algorithm and some applications in finite geometry. (English summary) **99c:51013**
Storme, Leo *see* **Penttila, Tim**, **99e:51008**
Sziklai, Péter Nuclei of pointsets in PG(n, q). (English summary) **99f:51016**
Szőnyi, T. (k, n)-arcs in Galois-planes. **99i:51009**
Tonchev, Vladimir D. *see* **Jaffe, David B.**, **99a:51008**
Wantz, Kenneth L. A new class of unitals in the Hughes plane. (English summary) **99c:51014**

Items with secondary classifications in 51E20

Bader, Laura (*with* Payne, Stanley E.) On infinite K-clan geometry. (English summary) **99k:51004**
Ball, Simeon (*with* Blokhuis, Aart) An easier proof of the maximal arcs conjecture. (English summary) **99a:51009**
Baumeister, Barbara (*with* Stroth, Gernot) The non-canonical gluings of two affine spaces. (English summary) **99k:51013**
Biondi, Paola An embedding theorem for finite planar spaces. (English summary) **99i:51002**
Bloemen, I. (*with* Thas, Joseph Adolphe; Van Maldeghem, Hendrik) Translation ovoids of generalized quadrangles and hexagons. (English summary) **99h:51001**
Blokhuis, Aart *see* **Ball, Simeon**, **99a:51009**
Bruen, Aiden A. (*with* Haddad, Lucien; Wehlau, David L.) Intersection-sets in PG$(n, 2)$. (English summary) **99c:51009**
— (*with* Haddad, Lucien; Wehlau, David L.) Binary codes and caps. (English summary) **99i:94062**
Casse, Louis Reynolds Antoine (*with* Lunardon, Guglielmo) On Buekenhout-Metz unitals. (English summary) **99d:51015**
Cherowitzo, William E. α-flocks and hyperovals. (English summary) **99m:51011**
Ebert, G. L. (*with* Metsch, Klaus; Szőnyi, T.) Caps embedded in Grassmannians. (English summary) **99c:51016**
Eisfeld, Jörg Subsets of association schemes corresponding to eigenvectors of the Bose-Mesner algebra. (English summary) **99h:05127**
— On the common nature of spreads and pencils in PG(d, q). (English summary) **99g:05042**
— On pairs of Baer subplanes in PG$(2, q^2)$. (English summary) **99j:51007**
Fisher, J. Chris Frobenius orbits. **99h:51008**
Fuhrmann, Rainer (*with* Torres, Fernando) On Weierstrass points and optimal curves. **99e:11081**
Glynn, David G. The modular counterparts of Cayley's hyperdeterminants. (English summary) **99d:15004**
Haddad, Lucien *see* **Bruen, Aiden A.; et al.**, **99c:51009** *and* **99i:94062**
Hamilton, Nicholas *see* **de Resmini, Marialuisa J.**, **99b:51008**
Hirschfeld, J. W. P. (*with* Korchmáros, Gábor) On the number of rational points on an algebraic curve over a finite field. (English summary) **99e:11082**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Finite doubly transitive affine planes. (English summary) **99d:51007**
Johnson, Norman Lloyd[1] *see* **Jha, Vikram**, **99d:51007**
Killgrove, R. (*with* Sternfeld, R.; Tamez, R.) Quadrangle completions and the anti-Desargues configuration. **99b:05026**
Korchmáros, Gábor *see* **Hirschfeld, J. W. P.**, **99e:11082**
Löwe, Stefan On embeddings of Ahrens-Szekeres generalized quadrangles. (English summary) **99a:51007**
Lunardon, Guglielmo *see* **Casse, Louis Reynolds Antoine**, **99d:51015**
Maschietti, Antonio Difference sets and hyperovals. (English summary) **99j:05033**
Metsch, Klaus *see* **Ebert, G. L.; et al.**, **99c:51016**
Payne, Stanley E. *see* **Bader, Laura**, **99k:51004**
Penttila, Tim (*with* Praeger, Cheryl E.) Ovoids and translation ovals. **99h:51010**
Praeger, Cheryl E. *see* **Penttila, Tim**, **99h:51010**
de Resmini, Marialuisa J. On the Mathon plane. (English summary) **99e:51006**
— (*with* Hamilton, Nicholas) Hyperovals and unitals in Figueroa planes. (English summary) **99b:51008**
Sternfeld, R. *see* **Killgrove, R.; et al.**, **99b:05026**
Stroth, Gernot *see* **Baumeister, Barbara**, **99k:51013**
Szőnyi, T. *see* **Ebert, G. L.; et al.**, **99c:51016**
Tamez, R. *see* **Killgrove, R.; et al.**, **99b:05026**
Thas, Joseph Adolphe Some new classes of extended generalized quadrangles of order $(q+1, q-1)$. (English summary) **99f:51010**
— Finite geometries, varieties and codes. (English summary) **99m:51008**
— (*with* Van Maldeghem, Hendrik) Flat lax and weak lax embeddings of finite generalized hexagons. (English summary) **99k:51006**
— *see also* **Bloemen, I.; et al.**, **99h:51001**
Torres, Fernando *see* **Fuhrmann, Rainer**, **99e:11081**
Van Maldeghem, Hendrik *see* **Bloemen, I.; et al.**, **99h:51001** *and* **Thas, Joseph Adolphe**, **99k:51006**
Wang, Kaishun (*with* Wei, Hong Zeng) Geometric construction of association schemes from the set of isotropic points in pseudo-symplectic spaces. (English and Chinese summaries) **99i:05211**
Wehlau, David L. *see* **Bruen, Aiden A.; et al.**, **99c:51009** *and* **99i:94062**
Wei, Hong Zeng *see* **Wang, Kaishun**, **99i:05211**

51E21 Blocking sets, ovals, k-arcs

Abatangelo, Vito (*with* Korchmáros, Gábor) A generalization of a theorem of B. Segre on regular points with respect to an ellipse of an affine Galois plane. (Italian. English summary) **99g:51007**
Bader, Laura (*with* O'Keefe, Christine M.) Arcs and ovals in infinite K-clan geometry. (English summary) **99d:51011**
Ball, Simeon Partial unitals and related structures in Desarguesian planes. (English summary) **99j:51008**
— (*with* Blokhuis, Aart) An easier proof of the maximal arcs conjecture. (English summary) **99a:51009**
Blokhuis, Aart (*with* O'Keefe, Christine M.) On deriving unitals. (English summary) **99m:51010**
— *see also* **Ball, Simeon**, **99a:51009**
Cherowitzo, William E. (*with* Storme, Leo) α-flocks with oval herds and monomial hyperovals. (English summary) **99c:51015**
— α-flocks and hyperovals. (English summary) **99m:51011**
Ebert, G. L. Hermitian arcs. **99d:51012**
Enea, Maria Rosaria (*with* Korchmáros, Gábor) $\mathcal{F}$-transitive ovals in projective planes of odd order. (English summary) **99j:51009**
Gács, András A remark on blocking sets of almost Rédei type. (English summary) **99e:51009**
Hadnagy, Éva Small complete arcs in PG$(2, p)$. (English summary) **99m:51012**
Hamilton, Nicholas *see* **de Resmini, Marialuisa J.**, **99b:51008**
Hirschfeld, J. W. P. Complete arcs. (English summary) **99f:51017**
Innamorati, Stefano The non-existence of certain large minimal blocking sets. (English summary) **99m:51013**
Korchmáros, Gábor *see* **Abatangelo, Vito**, **99g:51007** *and* **Enea, Maria Rosaria**, **99j:51009**
O'Keefe, Christine M. *see* **Bader, Laura**, **99d:51011** *and* **Blokhuis, Aart**, **99m:51010**
Pellegrino, Giuseppe On complete caps, not ovaloids, in the space PG$(3q)$ with q odd. (Italian. English summary) **99d:51013**
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Sziklai, Péter (*with* Szőnyi, T.) Blocking sets and algebraic curves. (English summary) **99k:51010**
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Innamorati, Stefano The non-existence of certain large minimal blocking sets. (English summary) **99h:05020**
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Metsch, Klaus The sets closest to ovoids in $Q^-(2n+1, q)$. **99d:51010**
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Rajola, Sandro Designs in Steiner systems and nonregular hyperovals in PG$(2, q)$. (Italian. English summary) **99f:51007**
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51E22 Linear codes and caps in Galois spaces [see also 94B05]

Blokhuis, Aart (*with* Sziklai, Péter) A note on small complete caps in the Klein quadric. (English summary) **99d:51014**
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Ebert, G. L. (*with* Metsch, Klaus; Szőnyi, T.) Caps embedded in Grassmannians. (English summary) **99c:51016**
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Ughi, Emanuela On the completeness of certain caps. (English summary) **99h:51011**

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Brouwer, Andries E. Linear spaces of quadrics and new good codes. (English summary) **99j:94073**
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Di Gennaro, Fernando (*with* Eugeni, Franco) Pseudo-Euclidean structures on Galois fields. (Italian. English summary) **99c:51007**
Dodunekov, Stefan (*with* Simonis, Juriaan) Codes and projective multisets. (English summary) **99m:94041**
Dougherty, Steven T. Planes, nets, and codes. **99f:51012**
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Gao, Shu Hong (*with* Key, J. D.) Bases of minimum-weight vectors for codes from designs. (English summary) **99k:94057**
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Hamada, Noboru (*with* van Eupen, Marijn) The nonexistence of ternary [38, 6, 23] codes. (English summary) **99a:94043**
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Narasimha Sastry, N. S. (*with* Sin, Peter) The code of a regular generalized quadrangle of even order. **99c:51006**
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Casse, Louis Reynolds Antoine (*with* Lunardon, Guglielmo) On Buekenhout-Metz unitals. (English summary) **99d:51015**
Dover, Jeremy M. Subregular spreads of $\mathscr{FG}(2n+1, q)$. (English summary) **99i:51010**
Gordon, Neil A. (*with* Lunardon, Guglielmo; Shaw, Ronald) Linear sections of GL$(4, 2)$. (English summary) **99g:51008**
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Ebert, G. L. Partitioning problems and flag-transitive planes. (English summary) **99h:51007**
Hollmann, Henk D. L. (*with* Körner, János; Litsyn, Simon) Tiling Hamming space with few spheres. (English summary) **99a:05025**
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— *see also* **Bloemen, I.; et al., 99h:51001**
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— (*with* Pasini, Antonio) On $C_2.L$-geometries. (English summary) **99k:51014a**
— *see also* **Pasini, Antonio, 99k:51014b**
Blok, Rieuwert J. (*with* Brouwer, Andries E.) The geometry far from a residue. (English summary) **99k:51015**
— (*with* Brouwer, Andries E.) Spanning point-line geometries in buildings of spherical type. (English summary) **99f:51019**
Brouwer, Andries E. *see* **Blok, Rieuwert J., 99f:51019** *and* **99k:51015**
Buekenhout, Francis (*with* Dehon, Michel; Leemans, Dimitri) On flag-transitive incidence geometries of rank 6 for the Mathieu group M_{12}. (English summary) **99m:51017**
— (*with* Dehon, Michel; Cara, Philippe) Geometries of small almost simple groups based on maximal subgroups. (English summary) **99c:51017**
— (*with* Cara, Philippe) Some properties of inductively minimal geometries. (English summary) **99f:51020**
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— (*with* Pasini, Antonio) Flag-transitive extensions of dual projective spaces. (English summary) **99h:51015**
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summary) **99m:51019**
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Barré, Sylvain Sur les polyèdres de rang 2. [Polyhedra of rank two] **99c:20035**
Bourdon, Marc (*with* Pajot, Hervé) Poincaré inequalities and quasiconformal structure on the boundary of some hyperbolic buildings. (English summary) **99j:30024**
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— (*with* Steger, Tim) Application of the Bruhat-Tits tree of $SU_3(h)$ to some $\widetilde{A}_2$ groups. (English summary) **99i:11026**
Fukshansky, A. (*with* Stroth, Gernot) Semiclassical parabolic systems related to M_{24}. (English summary) **99d:20023**
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51E25 Other finite nonlinear geometries

Benz, Walter Automorphisms of finite Einstein geometries. (English summary) **99k:51016**
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Yoshiara, Satoshi The universal covers of a family of extended generalized quadrangles. (English summary) **99j:51006**

51E26 Other finite linear geometries

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51E30 Other finite incidence structures [see also 05B30]

Bálint, Vojtech (*with* Lauron, Philippe) Some inequalities for the (r, q)-structures. (English summary)
Jurga, Rastislav Some combinatorial results on the classification of lines in Desarguesian Hjelmslev planes. (English summary) **99e:51011**
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Levenshtein, Vladimir I. On designs in compact metric spaces and a universal bound on their size. (English summary) **99i:05055**

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51F05 Absolute planes

Pambuccian, Victor Zur Existenz gleichseitiger Dreiecke in H-Ebenen. (English summary) [On the existence of equilateral triangles in H-planes] **99j:51011**

51F15 Reflection groups, reflection geometries [see also 20H10, 20H15; for Coxeter groups, see 20F55]

Karzel, Helmut Geometric reflection structures and their corresponding loops. **99m:51022**

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Apéry, François (*with* Yoshida, Masaaki) Pentagonal structure of the configuration space of five points in the real projective line. **99e:52017**
Bremke, Kirsten (*with* Malle, Gunter) Root systems and length functions. (English summary) **99g:20075**
Götze, Heinz ★ Castel del Monte. **99k:01009**
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Haglund, Frédéric Réseaux de Coxeter-Davis et commensurateurs. (English and French summaries) [Coxeter-Davis lattices and commensurators] **99j:20049**
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51F20 Congruence and orthogonality [see also 20H05]

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51F25 Orthogonal and unitary groups [see also 20H05]

Marshall, T. H. Geometry of pseudospheres. I. (English summary) **99c:51020**

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Brungs, Hans-Heinrich (*with* Strambach, Karl) Algebras and orthogonal groups. II. (English summary) **99b:17002**
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Schröder, Eberhard M. On 1-isometries of affine quadrics over finite fields. (English summary) **99c:51019**
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Klotzek, Benno Diskontinuierliche Bewegungsgruppen verschiedenen Grades in verschiedenen Geometrien. (English summary) [Discontinuous motion groups of varying degree in different geometries] **99m:51023**
Moreno, Guillermo Symmetry. (Spanish. Spanish summary) (*see* **99f:00013**)
Quaisser, Erhard Lower levels of Euclidean planes. (English summary) **99f:51024**
Santilli, Ruggero Maria Isotopic liftings of the Pythagorean theorem, trigonometric and hyperbolic functions. (English summary) (*see* **99e:53001**)
Strambach, Karl Elliptic geometry of a group. (*see* **99c:00012**)
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51G05 Ordered geometries (ordered incidence structures, etc.)

Bhattarai, H. N. Decomposition of Lt-connected geometries and generalized projective spaces. (English summary) **99f:51025**
Kreuzer, Alexander Charakterisierung harmonisch halbgeordneter Ebenen. (English summary) [Characterization of harmonically half-ordered planes] **99c:51021**

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Krym, V. R. Linear spaces of kinematic type. (Russian. English and Russian summaries) **99d:51024**
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51Hxx Topological geometry

51H10 Topological linear incidence structures

Betten, Dieter (*with* Im, Jang-Hwan) 4-dimensional projective planes with a 3-dimensional elation group. (English summary) **99b:51010**
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— Product spaces. (English summary) **99g:51011**
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Löwen, Rainer Affine Hughes groups acting on 4-dimensional compact projective planes. (English summary) **99f:51026**
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Salzmann, Helmut R. Characterization of 16-dimensional Hughes planes. (English summary) **99i:51013**
— *see also* **Priwitzer, Barbara, 99f:51027**
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— Collineations of smooth stable planes. (English summary) **99i:51015**
— 16-dimensional smooth projective planes with large collineation groups. (English summary) **99m:51025**
Kramer, Linus Octonion Hermitian quadrangles. (English summary) **99g:51003**
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Steinke, G. F. *see* **Löwen, Rainer, 99j:51012**

51H15 Topological nonlinear incidence structures

Löwen, Rainer (*with* Steinke, G. F.) Nonclassical 4-dimensional Minkowski planes obtained as brothers of semiclassical 4-dimensional Laguerre planes. (English summary) **99j:51012**
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— (*with* Schroth, Andreas E.) Plane models of semi-biplanes. (English summary) **99c:51005**
— (*with* Schroth, Andreas E.) Errata: "Split semi-biplanes in antiregular generalized quadrangles". **99b:51005b**
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51H20 Topological geometries on manifolds [see also 57–XX]

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51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

Bödi, Richard Solvable collineation groups of smooth projective planes. (English summary) **99e:51013**
— Collineations of smooth stable planes. (English summary) **99i:51015**
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51Jxx Incidence groups

51J10 Projective incidence groups

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Marchi, Mario *see* **Karzel, Helmut, 99h:51016**

51J15 Kinematic spaces

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Marchi, Mario *see* **Karzel, Helmut, 99h:51016**

51Kxx Distance geometry

51K05 General theory

Bandelt, Hans-Jürgen (*with* Chepoĭ, V. D.; Laurent, Monique) Embedding into rectilinear spaces. (English summary) **99d:51017**
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51K99 None of the above, but in this section

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51Lxx Geometric order structures [see also 53C75]

51L05 Geometry of orders of nondifferentiable curves

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51L15 n-vertex theorems via direct methods

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51Mxx Real and complex geometry

51M04 Elementary problems in Euclidean geometries

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Drexler, Michael (*with* Gander, Martin J.) Circular billiard. (English summary) **99c:51024**

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Schuster, Wolfgang Regularisierung von Polygonen. (German summary) [Regularization of polygons] **99d:51021**

Suryanarayan, E. R. *see* **Beauregard, Raymond A., 99e:11027**

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51M05 Euclidean geometries (general) and generalizations

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51M09 Elementary problems in hyperbolic and elliptic geometries

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Ruoff, Dieter *see* **Fisher, J. Chris, 99b:51013**

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51M10 Hyperbolic and elliptic geometries (general) and generalizations

Benz, Walter Translation equation and some new geometries. (English summary) **99d:51020**

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51M15 Geometric constructions

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Boskoff, Vladimir Some remarks on i-derivable curves. (English summary) **99k:51022**
Čerin, Zvonko Regular hexagons associated to triangles with equal centroids. (German summary) **99k:51023**
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Pambuccian, Victor Zur Existenz gleichseitiger Dreiecke in H-Ebenen. (English summary) [On the existence of equilateral triangles in H-planes] **99j:51011**
Schuster, Wolfgang Die Transformation einer geschlossenen Kurve in eine Ellipse. (German summary) [The transformation of a closed curve into an ellipse] **99f:51029**
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Thas, Charles Desmic systems of tetrahedra associated with a Morley-Petersen-Study configuration. (English summary) **99e:51019**
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51M16 Inequalities and extremum problems {For convex problems see 52A40.}

Bahn, Hyoungsick (*with* Hong, Sungpyo) Isoperimetric inequalities for sectors in the Minkowski 2-spacetime. (English summary) **99k:51024**
Čerin, Zvonko Triangles from areas. (English summary)
Guo, Shu Guang Two geometric inequalities for the polar set of a simplex and their applications. (Chinese. English and Chinese summaries)
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Kung, Sidney H. A generalization of Fermat's problem revisited.
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Xanthopulos, Zaharias *see* **Melachrinoudis, Emanuel, 99d:90042**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Coxeter, H. S. M. (*with* Grünbaum, Branko) Face-transitive polyhedra with rectangular faces. (French summary) **99f:51033**
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Klobučar, Davor On nonexistence of an integer regular polygon. (English and Croatian summaries) **99g:51016**
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Balke, Ludwig Classification of disordered tilings. (English summary) **99i:52025**
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Bridgeman, Martin Bounds on volume increase under Dehn drilling operations. **99f:57019**
Carrizosa, Emilio (*with* Plastria, Frank) Locating an undesirable facility by generalized cutting planes. (English summary) **99k:90095**
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51M25 Length, area and volume [see also 26B15]

Ku, Hsu-Tung (*with* Ku, Mei-Chin; Zhang, Xin-Min) Isoperimetric inequalities on surfaces of constant curvature. (English summary) **99i:51020**
Ku, Mei-Chin *see* **Ku, Hsu-Tung; et al., 99i:51020**
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Li, Hongbo Hyperbolic geometry with Clifford algebra. (English summary) **99f:51030**
Mahmood, Munir (*with* Edwards, Phillip) An algebraic proof that polygons have less area than the circle with same perimeter. (English summary)
Marshall, T. H. Volume formulae for regular hyperbolic cubes. (English summary) **99i:52008**
— Truncated tetrahedra and their reflection groups. (English summary) **99b:52017**
O'Neill, E. J. *see* **Ghandehari, Mostafa, 99c:52009**
Pankov, M. A. Projections of k-dimensional subsets of $\mathbf{R}^n$ onto k-dimensional planes. (English, Russian and Ukrainian summaries) **99g:28011**

Pečarić, Josip *see* **Volenec, Vladimir; et al., 99f:51032**
Schöpf, Peter Flächentreue C^1-Abbildungen sind Isometrien. (German summary) [Area-preserving C^1-mappings are isometries] **99b:58035**
Sedykh, Vyacheslav (*with* Shapiro, Boris Z.) On Young hulls of convex curves in $\mathbf{R}^{2n}$. (English summary) **99h:52004**
Shapiro, Boris Z. *see* **Sedykh, Vyacheslav, 99h:52004**
Veljan, Darko *see* **Volenec, Vladimir; et al., 99f:51032**
Volenec, Vladimir (*with* Veljan, Darko; Pečarić, Josip) Inequalities for volumes of simplices in terms of their faces. (English summary) **99f:51032**
Yiu, Paul Construction of indecomposable Heronian triangles. (English summary) **99i:11017**

51M30 Line geometries and their generalizations [see also 53A25]

Items with secondary classifications in 51M30

Ambartsumyan, R. V. (*with* Oganyan, V. K.) Finite-additive functionals in the space of planes. I. (Russian. English and Russian summaries) **99i:52006**
Oganyan, V. K. *see* **Ambartsumyan, R. V., 99i:52006**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Fruchard, Augustin Les triplets de la variété de Grassmann $G_2(\mathbf{R}^6)$. (English and French summaries) [The triples of the Grassmann manifold $G_2(\mathbf{R}^6)$] **99e:51023**
Huang, Wen-Ling Adjacency preserving transformations of Grassmann spaces. **99k:51025**

Items with secondary classifications in 51M35

Kreuzer, Alexander On isomorphisms of Grassmann spaces. (English summary) **99g:51001**
Masala, Giovanni Théorèmes de congruence pour triplets de points dans les variétés de Grassmann $G_2(\mathbf{R}^N)$. (Italian summary) [Congruence theorems for triplets of points in Grassmann manifolds $G_2(\mathbf{R}^N)$] **99j:53070**

51M99 None of the above, but in this section

Mackay, Alan L. On the regular heptagon. (English summary) **99c:51028**
Stachel, Hellmuth A remarkable overconstrained spherical motion. (English summary) **99h:51018**

Items with secondary classifications in 51M99

Boskoff, Vladimir (*with* Horja, P.) The characterization of some special Barbilian spaces using the Tzitzeica construction. (English summary)
Dolzmann, Andreas (*with* Sturm, Thomas; Weispfenning, Volker) A new approach for automatic theorem proving in real geometry. (English summary) **99m:03021**
Gervasi, P. *see* **Zsombor-Murray, P. J.; et al., (99d:70002)**
Horja, P. *see* **Boskoff, Vladimir**
Husty, Manfred L. *see* **Zsombor-Murray, P. J.; et al., (99d:70002)**
Rosenfeld, Azriel Fuzzy geometry: an updated overview. (English summary)
Sharir, Micha Arrangements of surfaces in higher dimensions. (English summary) **99g:52026**
Sturm, Thomas *see* **Dolzmann, Andreas; et al., 99m:03021**
Weispfenning, Volker *see* **Dolzmann, Andreas; et al., 99m:03021**
Zsombor-Murray, P. J. (*with* Husty, Manfred L.; Gervasi, P.) Geometry in mechanics. (English summary) (*see* **99d:70002**)

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry [see also 65D17, 68U07]

Dirnböck, Hans (*with* Stachel, Hellmuth) The development of the oloid. (English summary) **99d:51023**
Hoffmann, Miklós On the theorems of central axonometry. (English summary) **99c:51029**
Koczyk, Henryk ★ Geometria wykreślna. (Polish. Polish summary) [Descriptive geometry]
Stachel, Hellmuth New applications of geometry. (English summary)
— *see also* **Dirnböck, Hans, 99d:51023**

Items listed otherwise than by author

Problems:
Descriptive geometry *see* **Koczyk, Henryk**

Items with secondary classifications in 51N05

Gavrilova, Marina (*with* Rokne, Jon G.) Swap conditions for dynamic Voronoi diagrams for circles and line segments. (English summary) **99h:65240**
Hoschek, Josef (*with* Schneider, Mike) Interpolation and approximation with developable surfaces. (English summary) **99j:65025**
Rokne, Jon G. *see* **Gavrilova, Marina, 99h:65240**
Schneider, Mike *see* **Hoschek, Josef, 99j:65025**
Servatius, Brigitte (*with* Whiteley, Walter) Constraining plane configurations in computer-aided design: combinatorics of directions and lengths. (English summary) **99m:68218**
Whiteley, Walter *see* **Servatius, Brigitte, 99m:68218**

51N10 Affine analytic geometry

Chkhatarashvili, D. About the projective-affine relations in the modules. (English summary)
Fisher, J. Chris (*with* Jamison-Waldner, Robert E.) Properties of affinely regular polygons. (English summary) **99m:51029**
Jamison-Waldner, Robert E. *see* **Fisher, J. Chris, 99m:51029**
Pagon, Dušan (*with* Zeitler, Herbert) Polar lines and tangents. (English summary) **99i:51021**
Pita Ruiz, Claudio Parallel curves. (Spanish. Spanish summary)
Zeitler, Herbert *see* **Pagon, Dušan, 99i:51021**

Items with secondary classifications in 51N10

Giering, Oswald Affine and projective generalization of Wallace lines. (English summary) **99c:51025**
Mamistvalov, A. G. Affine classification and recognition of geometric bodies by their three plane orthogonal projections. (Russian. English and Georgian summaries)

51N15 Projective analytic geometry

Gorjanc, Sonja Quartic inversion in space and some of its products. (English and Croatian summaries) **99f:51034**
Palej, Marian A simple proof for the theorems of Pascal and Pappus. (English summary) **99c:51030**
Xiao, Hui Cheng A theorem on the determination of projective transformations of the plane. (Chinese. English and Chinese summaries)
Zhao, Lin Long The butterfly theorem from a projective viewpoint. (Chinese. English and Chinese summaries)
Zubė, S. Bidegree (2, 1) parametrizable surfaces in projective 3-space. (English and Lithuanian summaries) **99m:51030**

Items with secondary classifications in 51N15

Eggar, M. H. Pinhole cameras, perspective, and projective geometry. **99f:51004**
Farin, Gerald E. ★ NURBS. (English summary) **99m:65031**
Giering, Oswald Affine and projective generalization of Wallace lines. (English summary) **99c:51025**
Mamistvalov, A. G. Affine classification and recognition of geometric bodies by their three plane orthogonal projections. (Russian. English and Georgian summaries)

51N20 Euclidean analytic geometry

Čerin, Zvonko (*with* Gianella, Gian Mario) Triangles from sums of sides and altitudes. (English summary) **99g:51017**
— Locus properties of the Neuberg cubic. (English summary) **99h:51019**
Gianella, Gian Mario *see* **Čerin, Zvonko, 99g:51017**
Gorjanc, Sonja The pedal surfaces of (1, 2)-congruences with a one-parameter set of ellipses. (English summary) **99c:51031**
Groß, C. (*with* Strempel, T.-K.) Topologie verallgemeinerter Kegelschnitte. (German summary) [Topology of generalized conics] **99f:51035**
Grünbaum, Branko Selfintersections of polyarcs.
Karger, Adolf Classical geometry and computers. (English summary) **99f:51036**
Mirman, Boris Numerical ranges and Poncelet curves. (English summary) **99j:51013**
Niu, Xiao Qi (*with* Zhao, Zun Yu) A complete system of invariants for the line of intersection of a quadratic surface with a plane. (Chinese. English and Chinese summaries)
Schuster, Wolfgang Steinersche Torusflächen. [Steiner torus surfaces] **99f:51037**
Strempel, T.-K. *see* **Groß, C., 99f:51035**
Zhao, Zun Yu *see* **Niu, Xiao Qi**

Items with secondary classifications in 51N20

Boehm, Wolfgang *see* **Paluszny, Marco, 99c:65262**
Čerin, Zvonko Triangles from products of sides with cevians. (English and Croatian summaries)
— Triangles from areas. (English summary)
Kimberling, Clark A class of major centers of triangles. (English summary) **99k:51021**
Kuruoğlu, Nuri (*with* Sarioğlugil, Ayhan) On the characteristic properties of the hyperpedal surfaces in the $(n+1)$-dimensional Euclidean space E^{n+1}. (English summary) **99g:53009**
Massouros, Christos G. Hypergroups and geometry. (French summary)
Paluszny, Marco (*with* Boehm, Wolfgang) General cyclides. (English summary) **99c:65262**
Sarioğlugil, Ayhan *see* **Kuruoğlu, Nuri, 99g:53009**
Saurer, Gerhard Eine kinematische Abbildung der ebenen euklidischen Bewegungen. [A kinematic mapping of plane Euclidean motions] **99f:53011**
Shou, Hua Hao (*with* Wang, Guo Jin[1]) The boundary of an interval Bézier curve. (Chinese. English and Chinese summaries) (*see* **99k:65006**)
Sterling, Ivan (*with* Sterling, Thomas) Approximating planar rotations. (English summary) **99j:65262**
Sterling, Thomas *see* **Sterling, Ivan, 99j:65262**
Trell, Erik An alternative solution to Fermat's last theorem: infinite ascent in isotopic geometry. (English summary)
Wang, Guo Jin[1] *see* **Shou, Hua Hao, (99k:65006)**

51N25 Analytic geometry with other transformation groups

Tang, Ren Wei Solution methods for the Odaka equation. (Chinese. English and Chinese summaries)
Tölke, Jürgen Zu den isotropen Kreistripeln mit kongruenten Apollonischen Berührkreisen. [On the isotropic circle triples with congruent Apollonius circles of contact] **99h:51020**

Items with secondary classifications in 51N25

Čerin, Zvonko Locus properties of the Neuberg cubic. (English summary) **99h:51019**
Chen, Horng-Yang *see* **Wallner, Johannes; et al., 99g:53016**

Lawson, Jimmie D. Semigroups in Möbius and Lorentzian geometry. (English summary) **99e:22006**
Pottmann, Helmut *see* **Wallner, Johannes; et al., 99g:53016**
Schuster, Wolfgang Steinersche Torusflächen. [Steiner torus surfaces] **99f:51037**
Wallner, Johannes (*with* Chen, Horng-Yang; Pottmann, Helmut) Galilei Laguerre geometry and rational circular offset surfaces. (English summary) **99g:53016**
Wresnik, Helmut Normalprojektionen von Vektorsystemen im n-dimensionalen isotropen Raum I_n^k. [Normal projections of vector systems in n-dimensional isotropic space I_n^k] **99g:53018**

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Items with secondary classifications in 51N30

Akivis, Maks A. (*with* Goldberg, Vladislav V.) The Darboux mapping of canal hypersurfaces. (English summary) **99g:53008**
Goldberg, Vladislav V. *see* **Akivis, Maks A., 99g:53008**
Rosenfeld, B. A. Geometry of planes over nonassociative algebras. (English summary) **99e:51012**
Steinbach, Anja Ingrid Subgroups of classical groups generated by transvections or Siegel transvections I. Embeddings in linear groups. (English summary) **99c:20042**
— Subgroups of classical groups generated by transvections or Siegel transvections. II. Embeddings in orthogonal groups. (English summary) **99c:20043**

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Krasauskas, Rimvydas Universal parameterizations of some rational surfaces. (English summary) **99j:51014**
Sliepčević, Ana Isogonale Transformation und Fokalkurve einer Kegelschnittschar. (English and Croatian summaries) [Isogonal transformation and focal curve of a range of conics] **99c:51032**

Items with secondary classifications in 51N35

Albrecht, Gudrun Determination and classification of triangular quadric patches. (English summary) **99e:65190**
Bühler, Katja *see* **Paluszny, Marco, 99e:65196**
Paluszny, Marco (*with* Bühler, Katja) Canal surfaces and inversive geometry. (English summary) **99e:65196**

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

Krym, V. R. Linear spaces of kinematic type. (Russian. English and Russian summaries) **99d:51024**
Ungar, Abraham A. From Pythagoras to Einstein: the hyperbolic Pythagorean theorem. (English summary) **99k:51026**

Items with secondary classifications in 51P05

Budden, Tim A star in the Minkowskian sky: anisotropic special relativity. **99b:83007**
de Carvalho, Alexandre Luis Trovon (*with* Rodrigues, Waldyr Alves, Jr.) A finest topology for Minkowski spacetime. (Portuguese. English summary) **99g:83005**
Epstein, Jerome *see* **Schücking, Engelbert L.; et al., 99m:81289**
Kamiya, Noriaki On isotopies of algebras and triple systems. (English summary) **99j:17006**
Kowalski, William P. *see* **Schücking, Engelbert L.; et al., 99m:81289**
Krammer, Werner (*with* Urbantke, Helmuth K.) K-loops, gyrogroups and symmetric spaces. (English summary) **99i:83003**
Krym, V. R. Causal structures in linear spaces. (English summary) **99e:51014**
Lauro, Salvatore *see* **Schücking, Engelbert L.; et al., 99m:81289**
Lerbet, Jean Analytic geometry and singularities of mechanisms. (English summary) **99g:70010**
Rodrigues, Waldyr Alves, Jr. *see* **de Carvalho, Alexandre Luis Trovon, 99g:83005**
Schücking, Engelbert L. (*with* Epstein, Jerome; Kowalski, William P.; Lauro, Salvatore) What is space-time made of? (English summary) **99m:81289**
Urbantke, Helmuth K. *see* **Krammer, Werner, 99i:83003**

52–XX Convex and discrete geometry

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

Coppel, W. A. ★ Foundations of convex geometry. (English summary) **99f:52001**
Hadwiger, H. ★ Lo antiguo y lo nuevo acerca de los conjuntos convexos. (Spanish. Spanish summary) [Classical results and new developments concerning convex sets] **99e:52001**
(Montejano, Luis) *see* **Hadwiger, H., 99e:52001**

Items with secondary classifications in 52–01

Singer, David A. ★ Geometry: plane and fancy. (English summary) **99c:51003**

52–02 Research exposition (monographs, survey articles)

Ball, Keith M. An elementary introduction to modern convex geometry. **99f:52002**

Items with secondary classifications in 52–02

van den Dries, Lou ★ Tame topology and o-minimal structures. (English summary) **99j:03001**
Milman, Vitali D. Surprising geometric phenomena in high-dimensional convexity theory. (English summary) **99j:52001**
O'Rourke, Joseph ★ Computational geometry in C. (English summary) **99k:68198**

52–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 52–03

Shamos, Michael Ian The early years of computational geometry—a personal memoir. (English summary) **99h:68169**

52–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 52–04

Comba, João (*with* Naylor, Bruce) Conversion of binary space partitioning trees to boundary representation. (English summary) **99f:65212**
Gomes, Abel (*with* Middleditch, Alan) Synthesis of a unified approach to shape modeling. (English summary) **99e:65194**
Middleditch, Alan *see* **Gomes, Abel, 99e:65194**
Naylor, Bruce *see* **Comba, João, 99f:65212**
Prok, István Classification of dodecahedral space forms. **99i:52029**

52–06 Proceedings, conferences, collections, etc.

(Chazelle, Bernard) *see* **Advances in discrete and computational geometry, 99f:52003**
(Goodman, Jacob E.) *see* **Advances in discrete and computational geometry, 99f:52003**
(Patera, Jiří) *see* **Quasicrystals and discrete geometry, 99d:52001**
(Pollack, Richard M.) *see* **Advances in discrete and computational geometry, 99f:52003**

Items listed otherwise than by author

Advances in discrete and computational geometry ★ Advances in discrete and computational geometry. **99f:52003**
Conference:
Discrete and Computational Geometry: Ten Years Later ★ Advances in discrete and computational geometry. **99f:52003**
Contemporary Mathematics ★ Advances in discrete and computational geometry. **99f:52003**
Quasicrystals and discrete geometry ★ Quasicrystals and discrete geometry. **99d:52001**
South Hadley, MA ★ Advances in discrete and computational geometry. **99f:52003**
Toronto, ON ★ Quasicrystals and discrete geometry. **99d:52001**

Items with secondary classifications in 52–06

(Ball, Keith M.) *see* **Convex geometric analysis, 99h:00026**
(Klein, Reinhard) *see* **Geometric modeling: theory and practice, 99d:65003**
(Milman, Vitali D.) *see* **Convex geometric analysis, 99h:00026**
(Rau, René T.) *see* **Geometric modeling: theory and practice, 99d:65003**
(Strasser, Wolfgang[1]) *see* **Geometric modeling: theory and practice, 99d:65003**

Items listed otherwise than by author

Berkeley, CA ★ Convex geometric analysis. **99h:00026**
Blaubeuren ★ Geometric modeling: theory and practice. **99d:65003**
Conference:
Theory and Practice of Geometric Modeling ★ Geometric modeling: theory and practice. **99d:65003**
Convex geometric analysis ★ Convex geometric analysis. **99h:00026**
Geometric modeling: theory and practice ★ Geometric modeling: theory and practice. **99d:65003**

52Axx General convexity

Milman, Vitali D. Surprising geometric phenomena in high-dimensional convexity theory. (English summary) **99j:52001**

Items with secondary classifications in 52Axx

Goodey, Paul (*with* Zhang, Gaoyong) Inequalities between projection functions of convex bodies. (English summary) **99h:52010**
Zhang, Gaoyong *see* **Goodey, Paul, 99h:52010**

52A01 Axiomatic and generalized convexity

Cristescu, Gabriela A new route to the convexity related to the concavity coarseness. (English and Romanian summaries) (*see* **99i:00014**)
— On the approximation of the classical convexity. (English and Romanian summaries) (*see* **99i:00014**)
— Convexities with respect to a set and two behaviours. (English and Romanian summaries) (*see* **99i:00027**)
— Convexity close by undetectable concavity. (English and Romanian summaries) (*see* **99i:00027**)
Fink, Eugene (*with* Wood, Derick) Generalized halfspaces in restricted-orientation convexity. (English summary) **99h:52001**
Horváth, Miklós (*with* Joó, István) On some special pseudoconvex spaces. (English summary) **99i:52001**
Joó, István *see* **Horváth, Miklós, 99i:52001**
Matoušek, Jiří (*with* Plecháč, P.) On functional separately convex hulls. (English summary) **99c:52001**
Plecháč, P. *see* **Matoušek, Jiří, 99c:52001**
Schuierer, Sven (*with* Wood, Derick) Visibility in semi-convex spaces. (English summary) **99b:52001**
Wood, Derick *see* **Schuierer, Sven, 99b:52001** *and* **Fink, Eugene, 99h:52001**

Items with secondary classifications in 52A01

Ben-El-Mechaiekh, Hichem (*with* Chebbi, Souhail; Florenzano, Monique; Llinares Ciscar, Juan Vicente) Abstract convexity and fixed points. (English summary) **99c:47089**
Chebbi, Souhail *see* **Ben-El-Mechaiekh, Hichem; et al., 99c:47089**
Eberhard, Andrew (*with* Nyblom, Michael) Jets, generalised convexity, proximal normality and differences of functions. **99h:49023**
Florenzano, Monique *see* **Ben-El-Mechaiekh, Hichem; et al., 99c:47089**
Kemper, Ralf Positively convex spaces. (English summary) **99m:46165**
— Injective and epi-projective objects in categories of convex spaces. (English summary) **99m:46166**
Llinares Ciscar, Juan Vicente *see* **Ben-El-Mechaiekh, Hichem; et al., 99c:47089**
Massouros, Christos G. Hypergroups and geometry. (French summary)
Moţ, Ghiocel Generalized convexity in metric spaces. (English and Romanian summaries) (*see* **99i:00014**)
— Applications of the convexity spaces. (English summary) (*see* **99i:00027**)
Nyblom, Michael *see* **Eberhard, Andrew, 99h:49023**
Richter, Christian On decompositions of compact convex sets. (English summary) **99d:52002**
Rolewicz, Stefan On uniformly Φ-convex functions and strongly monotone multifunctions. **99m:26019**

52A05 Convex sets without dimension restrictions

Baronti, Marco (*with* Casini, Emanuele; Papini, Pier Luigi) Centroids, centers, medians: what is the difference? (English summary) **99b:52002**
Casini, Emanuele *see* **Baronti, Marco; et al., 99b:52002**
Colesanti, Andrea Convexity in finite dimension. (Italian)
Papini, Pier Luigi *see* **Baronti, Marco; et al., 99b:52002**

Items with secondary classifications in 52A05

Dacorogna, Bernard (*with* Tanteri, C.) On the different convex hulls of sets involving singular values. (English summary) **99k:15013**
Penot, Jean-Paul Duality for radiant and shady programs. (English summary) **99f:90085**
Tanteri, C. *see* **Dacorogna, Bernard, 99k:15013**

52A07 Convex sets in topological vector spaces [see also 46A55]

Balaj, Mircea Intersection properties for some families of convex sets. (English summary) **99f:52004**
Cel, Jarosław Geometric-combinatorial characteristics of cones. (English summary) **99k:52001**
Lu, Zhan Yu The generalized Arrow-Barankin-Blackwell theorem. (Chinese. English and Chinese summaries)
Richter, Christian Partitioning balls into topologically equivalent pieces. (German summary) **99m:52001**
— On decompositions of compact convex sets. (English summary) **99d:52002**
Starkov, A. N. The Tikhonov property for linear groups. (Russian. Russian summary) **99f:52005**
Urbański, Ryszard On a family of pairwise convex sets. (English summary) **99c:52002**
— On cutting frustum. (English summary) **99c:52003**

Items with secondary classifications in 52A07

Cel, Jarosław A generalization of Tietze's theorem on local convexity for open sets. (English summary) **99d:46002**
— Characterizing starshaped sets by maximal visibility. (English summary) **99k:46006**
Dar, Sean Isotropic constants of Schatten class spaces. (English summary) **99k:46027**
Ganguly, Ashok (*with* Wadhwa, Kamal) A variational like inequality problem in non-compact sets. (English summary) **99m:49015**
Kemper, Ralf Epimorphisms of separated superconvex spaces. (English summary) **99b:46114**
— Positively convex spaces. (English summary) **99m:46165**
— Injective and epi-projective objects in categories of convex spaces. (English summary) **99m:46166**
Urbański, Ryszard Pairs of sets with convex union. (English summary) **99b:46007**
Wadhwa, Kamal *see* **Ganguly, Ashok, 99m:49015**

52A10 Convex sets in 2 dimensions (including convex curves) [see also 53A04]

Ahara, Kazushi (*with* Yamada, Kinji) Shapes of hexagrams. **99k:52002**
Araújo, P. V. Representation of curves of constant width in the hyperbolic plane. (English summary) **99m:52002**
Bocconi, Alessandro Determination of plane convex sets through X-rays. (English summary) **99i:52002**
Chai, Y. D. (*with* Kim, Yong Il) An estimate of the area of constant breadth curves. (English summary) **99h:52002**
Csikós, B. On the Hadwiger-Kneser-Poulsen conjecture. **99b:52003**
Dana-Picard, Thierry (*with* Haenel, Arie) Triangles, polygons and beams of light. (English summary)
Egorov, M. L. (*with* Zalgaller, V. A.) Visibility curves for ovals. (Russian. English and Russian summaries) **99e:52002**
Ginchev, I. (*with* Hoffmann, Armin) The Hausdorff nearest circle to a convex compact set in the plane. (English summary) **99e:52003**
Haenel, Arie *see* **Dana-Picard, Thierry**
Hinderer, Wolfram The mean of circumscribed polygons. (English summary) **99m:52003**
Hoffmann, Armin *see* **Ginchev, I., 99e:52003**
Kim, Yong Il *see* **Chai, Y. D., 99h:52002**
Kimberling, Clark Triangle centers and central triangles.
Kozlov, S. E. On quadrangles inscribed in an ellipse. (Russian. English and Russian summaries) **99d:52003**
Lecko, Millenia On certain class of subsets of the Euclidean plane. (English summary) **99b:52004**
Makeev, V. V. On pentagons inscribed in a closed convex curve. (Russian. English and Russian summaries) **99e:52004**
Scott, Paul R. Planar rectangular sets and Steiner symmetrization. (English summary) **99b:52005**
Yamada, Kinji *see* **Ahara, Kazushi, 99k:52002**
Zalgaller, V. A. *see* **Egorov, M. L., 99e:52002**

Items with secondary classifications in 52A10

Da Silva, Ilda P. F. (*with* Fukuda, Komei) Isolating points by lines in the plane. (English summary) **99d:52010**
Fukuda, Komei *see* **Da Silva, Ilda P. F., 99d:52010**
Hernández Cifre, M. A. (*with* Segura Gomis, S.) Some inequalities for planar convex sets containing one lattice point. (English summary) **99h:52019**
— (*with* Segura Gomis, S.) Some area-diameter inequalities for two-dimensional lattices. (English summary) **99i:52017**
Kim, Yong Il Integral formulas for strips. (English summary) **99k:52008**
Ludwig, Monika Asymptotic approximation of convex curves: the Hausdorff metric case. (English summary) **99c:52008**
Martini, Horst (*with* Soltan, Petru) On convex partitions of polygonal regions. (English summary) **99j:52016**
McCann, Robert J. Equilibrium shapes for planar crystals in an external field. (English summary) **99j:73018**
Pach, János (*with* Solymosi, József) Canonical theorems for convex sets. (English summary) **99a:52025**
Pallaschke, Diethard (*with* Urbański, Ryszard) Decompositions of compact convex sets. (English summary) **99f:52007**
Segura Gomis, S. *see* **Hernández Cifre, M. A., 99h:52019** *and* **99i:52017**
Shephard, G. C. The Nehring-Reyes' theorems for polygons. (English summary) **99i:51018**
Soltan, Petru *see* **Martini, Horst, 99j:52016**
Solymosi, József *see* **Pach, János, 99a:52025**
Sridharan, K. (*with* Subramanian, C. R.; Sudha, N.) Some properties of touching distances for polygons and polyhedra. (English summary) **99d:68239**
Subramanian, C. R. *see* **Sridharan, K.; et al., 99d:68239**
Sudha, N. *see* **Sridharan, K.; et al., 99d:68239**
Tverberg, Helge Proof of Reay's conjecture on certain positive-dimensional intersections. (English summary) **99g:52007**
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Weil, Wolfgang On the mean shape of particle processes. (English summary) **99b:60015**

52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

Makeev, V. V. On affine images of a rhombo-dodecahedron circumscribed about a three-dimensional convex body. (Russian. English and Russian summaries) **99e:52005**
Rieger, Georg Johann Der Quermaßkörper des regulären Tetraeders. [The quermass body of the regular tetrahedron] **99f:52006**

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Makeev, V. V. On the approximation of plane sections of a convex body. (Russian. English and Russian summaries) **99e:52007**
Sridharan, K. (*with* Subramanian, C. R.; Sudha, N.) Some properties of touching distances for polygons and polyhedra. (English summary) **99d:68239**
Subramanian, C. R. *see* **Sridharan, K.; et al., 99d:68239**
Sudha, N. *see* **Sridharan, K.; et al., 99d:68239**

52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

Bair, J. (*with* Dupin, J. C.) Cover and bounded parallel faces. (English summary) **99k:52003**
Balaj, Mircea Families of sets in general position. **99i:52003**
Barthe, Franck An extremal property of the mean width of the simplex. **99b:52006**
Bauer, Christina Determination of convex bodies by projection functions. (English summary) **99i:52004**
Bloch, Ethan D. The angle defect for arbitrary polyhedra. (English summary) **99h:52003**
Campi, Stefano (*with* Colesanti, Andrea; Gronchi, Paolo) Blaschke-decomposable convex bodies. (English summary) **99g:52001**
Colesanti, Andrea *see* **Campi, Stefano; et al., 99g:52001**
Dupin, J. C. *see* **Bair, J., 99k:52003**
Fink, Eugene (*with* Wood, Derick) Strong restricted-orientation convexity. (English summary) **99a:52001**
Gardner, Richard J. (*with* Zhang, Gaoyong) Affine inequalities and radial mean bodies. (English summary) **99e:52006**
— (*with* Soranzo, Alessandro; Volčič, Aljoša) On the determination of star and convex bodies by section functions. (English summary) **99k:52004**
Goodey, Paul (*with* Kiderlen, Markus; Weil, Wolfgang) Section and projection means of convex bodies. (English summary) **99d:52004**
Groemer, H. On a spherical integral transformation and sections of star bodies. (English summary) **99k:52005**
Gronchi, Paolo *see* **Campi, Stefano; et al., 99g:52001**
Hug, Daniel Absolute continuity for curvature measures of convex sets. I. (English summary) **99j:52002**
Kiderlen, Markus *see* **Goodey, Paul; et al., 99d:52004**
Klee, Victor (*with* Lewis, Ted; Von Hohenbalken, B.) Appollonius revisited: supporting spheres for sundered systems. (English summary) **99a:52002**
Koldobsky, Alexander Intersection bodies, positive definite distributions, and the Busemann-Petty problem. (English summary) **99i:52005**
König, Hermann H. (*with* Meyer, Mathieu; Pajor, A.) The isotropy constants of the Schatten classes are bounded. **99j:52003**
Lewis, Ted *see* **Klee, Victor; et al., 99a:52002**
Makai, Endre, Jr. (*with* Martini, Horst) The cross-section body, plane sections of convex bodies and approximation of convex bodies. II. (English summary) **99d:52005**
Makeev, V. V. On the approximation of plane sections of a convex body. (Russian. English and Russian summaries) **99e:52007**
Martini, Horst *see* **Makai, Endre, Jr., 99d:52005**
Meyer, Mathieu (*with* Reisner, Shlomo) Inequalities involving integrals of polar-conjugate concave functions. (English summary) **99c:52004**
— *see also* **König, Hermann H.; et al., 99j:52003**
Pajor, A. *see* **König, Hermann H.; et al., 99j:52003**
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Raĭgorodskiĭ, A. M. On dimensionality in the Borsuk problem. (Russian) **99c:52005**
Reisner, Shlomo *see* **Meyer, Mathieu, 99c:52004**
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Rudelson, M. Contact points of convex bodies. (English summary) **99d:52006**
Sedykh, Vyacheslav (*with* Shapiro, Boris Z.) On Young hulls of convex curves in $\mathbf{R}^{2n}$. (English summary) **99h:52004**
Shapiro, Boris Z. *see* **Sedykh, Vyacheslav, 99h:52004**
She, Yan On the sufficient condition for a convex domain to contain another in $\mathbf{R}_{2n}$. (English summary) **99h:52005**
Soranzo, Alessandro *see* **Gardner, Richard J.; et al., 99k:52004**
Urbański, Ryszard *see* **Pallaschke, Diethard, 99f:52007**
Vladimirov, A. A. *see* **Rubinov, Aleksandr M., 99g:52002**
Volčič, Aljoša Generalized Hammer's X-ray problem. (English summary) **99h:52006**
— *see also* **Gardner, Richard J.; et al., 99k:52004**
Von Hohenbalken, B. *see* **Klee, Victor; et al., 99a:52002**
Weil, Wolfgang *see* **Goodey, Paul; et al., 99d:52004**
Wood, Derick *see* **Fink, Eugene, 99a:52001**
Zhang, Gaoyong *see* **Gardner, Richard J., 99e:52006**

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— Integrals of smooth and analytic functions over Minkowski's sums of convex sets. **99m:52006**
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Bazilevich, L. E. Topology of a hyperspace of convex bodies of constant width. (Russian. Russian summary) **99i:57039**
Bourgain, Jean (*with* Zhang, Gaoyong) On a generalization of the Busemann-Petty problem. (English summary) **99m:52011**
Chen, William Counterexamples to Knaster's conjecture. **99c:55002**
Cuculescu, Ion (*with* Theodorescu, Radu) Multivariate unimodality revisited. (English summary) **99i:60027**
El Naschie, M. S. On octahedrons in $\mathbf{R}^{\infty}$ and the mean dimension of space. (English summary)
Fink, Eugene (*with* Wood, Derick) Generalized halfspaces in restricted-orientation convexity. (English summary) **99h:52001**
Gluskin, Efim D. On the stability of the volume radius. (English summary) **99m:52007**
Gordon, Yehoram (*with* Reisner, Shlomo; Schütt, Carsten) Umbrellas and polytopal approximation of the Euclidean ball. (English summary) **99k:52009a**
— (*with* Reisner, Shlomo; Schütt, Carsten) Erratum: "Umbrellas and polytopal approximation of the Euclidean ball". **99k:52009b**
Han, Zhi Qing Relationships between solid cones and cones satisfying the angle property. (Chinese. English and Chinese summaries) **99g:90083**
Hargé, Gilles Une inégalité de décorrélation pour la mesure gaussienne. (English and French summaries) [A decorrelation inequality for the Gaussian measure] **99h:60081**
Hug, Daniel Generalized curvature measures and singularities of sets with positive reach. (English summary) **99j:52004**
Ivanov, A. O. (*with* Tuzhilin, Alekseĭ Avgustinovich) Geometry of the set of minimal networks of a given topology with a fixed boundary. (Russian. Russian summary) **99c:05052**

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Kohlmann, Peter Characterization of metric balls in standard space forms via curvature. **99e:53108**
Lassak, Marek Approximation of convex bodies by centrally symmetric bodies. (English summary) **99f:52008**
Lovász, László *see* **Kannan, Ravindran; et al., 99h:68078**
Lutwak, E. Containment and circumscribing simplices. (English summary) **99a:52009**
Meyer, Mathieu (*with* Werner, Elisabeth) The Santaló-regions of a convex body. (English summary) **99a:52008**
Oganyan, V. K. *see* **Ambartsumyan, R. V., 99e:53106**
Ostrovskii, M. I. Projections in normed linear spaces and sufficient enlargements. (English summary) **99h:46019**
Reisner, Shlomo *see* **Gordon, Yehoram; et al., 99k:52009a** *and* **99k:52009b**
Rice, Michael D. Continuous algorithms. (English summary) **99c:54015**
Schütt, Carsten Floating body, illumination body, and polytopal approximation. (English summary) **99k:52010**
— *see also* **Gordon, Yehoram; et al., 99k:52009a** *and* **99k:52009b**
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Sunder, V. S. Some aspects of convexity. **99h:46005**
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Tverberg, Helge Proof of Reay's conjecture on certain positive-dimensional intersections. (English summary) **99g:52007**
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Wohlhart, K. The kinematics of Röschel polyhedra. (English summary) **99i:70007**
Wood, Derick *see* **Fink, Eugene, 99h:52001**
Zhang, Gaoyong *see* **Bourgain, Jean, 99m:52011**

52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

Burger, Markus Finite sets of piecewise linear inequalities do not characterize zonoids. (English summary) **99b:52007**
Kuperberg, Greg Another low-technology estimate in convex geometry. (English summary) **99k:52006**
Schneider, Rolf Intrinsic volumes in Minkowski spaces. (English summary) **99a:52003**

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Ball, Keith M. An elementary introduction to modern convex geometry. **99f:52002**
Gluskin, Efim D. On the stability of the volume radius. (English summary) **99m:52007**
Gordon, Yehoram (*with* Junge, Marius) Volume formulas in L_p-spaces. (English summary) **99m:46018**
— (*with* Junge, Marius; Nielsen, N. J.) The relations between volume ratios and new concepts of GL constants. (English summary) **99m:46019**
— (*with* Guédon, Olivier; Meyer, Mathieu) An isomorphic Dvoretzky's theorem for convex bodies. (English summary) **99d:46011**
Guédon, Olivier *see* **Gordon, Yehoram; et al., 99d:46011**
Hitczenko, Paweł (*with* Kwapień, Stanisław; Li, Wenbo V.; Schechtman, Gideon; Schlumprecht, Thomas; Zinn, Joel) Hypercontractivity and comparison of moments of iterated maxima and minima of independent random variables. (English summary) **99k:60008**
Junge, Marius *see* **Gordon, Yehoram, 99m:46018** *and* **99m:46019**
Kwapień, Stanisław *see* **Hitczenko, Paweł; et al., 99k:60008**
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Litvak, A. E. (*with* Milman, Vitali D.; Pajor, A.) The covering numbers and "low M^*-estimate" for quasi-convex bodies. (English summary) **99h:52022**
Lyubich, Yu. I. (*with* Shatalova, O. A.) Almost Euclidean planes in l_p^n. (Russian) **99j:46014**
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Ostrovskii, M. I. Projections in normed linear spaces and sufficient enlargements. (English summary) **99h:46019**
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Shatalova, O. A. *see* **Lyubich, Yu. I., 99j:46014**
Zinn, Joel *see* **Hitczenko, Paweł; et al., 99k:60008**

52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

Ambartsumyan, R. V. (*with* Oganyan, V. K.) Finite-additive functionals in the space of planes. I. (Russian. English and Russian summaries) **99i:52006**
Bárány, Imre (*with* Dalla, Leoni) Few points to generate a random polytope. (English summary) **99b:52008**
Dalla, Leoni *see* **Bárány, Imre, 99b:52008**
Dulio, Paolo Iterations of a family of varieties. (English summary) **99b:52009**
— Some results on the integral geometry of unions of independent families. (English summary)
Dumitrașcu, Stelian On the random two-dimensional convex bodies. (English summary) **99k:52007**
Fang, Kai-Tai (*with* Tian, Guo Liang; Xie, Min Yu) Uniform designs on convex polyhedra. (Chinese. Chinese summary)
Giannopoulos, A. A. (*with* Milman, Vitali D.) Mean width and diameter of proportional sections of a symmetric convex body. **99c:52006**
Hug, Daniel Generalized curvature measures and singularities of sets with positive reach. (English summary) **99j:52004**
Kim, Yong Il Integral formulas for strips. (English summary) **99k:52008**
Mecke, Klaus R. Integral geometry in statistical physics. (English summary) **99d:52007**
Milman, Vitali D. *see* **Giannopoulos, A. A., 99c:52006**
Moszyńska, Maria (*with* Przesławski, Krzysztof) Santaló points associated with radial densities. **99j:52005**
Oganyan, V. K. *see* **Ambartsumyan, R. V., 99i:52006**
Przesławski, Krzysztof *see* **Moszyńska, Maria, 99j:52005**
Richardson, T. J. Total curvature and intersection tomography. (English summary) **99c:52007**
Spriestersbach, K. K. Determination of a convex body from the average of projections and stability results. (English summary) **99b:52010**
Tian, Guo Liang *see* **Fang, Kai-Tai; et al.**
Xie, Min Yu *see* **Fang, Kai-Tai; et al.**
Xie, Peng Proof of a conjecture of Schneider. (Chinese. Chinese summary) **99b:52011**
Zhang, Gaoyong Dual kinematic formulas. (English summary) **99e:52008**

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Bosetto, Elena Geometric probabilities of Buffon type in the Euclidean space E_3. (English summary) **99h:60017**
Bourgain, Jean Random points in isotropic convex sets. (English summary) **99m:60021**
Bräker, H. (*with* Hsing, Tailen; Bingham, N. H.) On the Hausdorff distance between a convex set and an interior random convex hull. (English summary) **99f:60020**
Duma, Andrei (*with* Stoka, Marius) Problems of geometric probability for non-regular lattices. II, III. (English summary) **99c:60018**
Goodey, Paul (*with* Kiderlen, Markus; Weil, Wolfgang) Section and projection means of convex bodies. (English summary) **99d:52004**
Groemer, H. On a spherical integral transformation and sections of star bodies. (English summary) **99k:52005**
Gual-Arnau, X. Stereological implications of the geometry of cones. (English summary) **99b:53093**
Hsing, Tailen *see* **Bräker, H.; et al., 99f:60020**
Isokawa, Yukinao Limit distributions of random triangles in hyperbolic planes. (English summary) **99k:60020**
Jensen, Eva B. Vedel ★ Local stereology. **99h:60018**
Kiderlen, Markus *see* **Goodey, Paul; et al., 99d:52004**
Klain, Daniel A. Kinematic formulas for finite lattices. (English summary) **99c:05005**
Koshevoĭ, G. A. (*with* Mosler, Karl) Zonoid trimming for multivariate distributions. (English summary) **99c:62151**
Kovalenko, Igor N. A proof of a conjecture of David Kendall on the shape of random polygons of large area. (Russian. English and Ukrainian summaries) **99c:60019**
Kreinovich, Vladik (*with* Molchanov, Ilya S.) How to define an average of several sets? I. (English summary) **99e:60039**
Leontovich, A. M. *see* **Vasil'ev, N. B., 99k:60028**
Letac, Gérard (*with* Scarsini, Marco) Random nested tetrahedra. (English summary) **99k:60023**
Makai, Endre, Jr. (*with* Martini, Horst) The cross-section body, plane sections of convex bodies and approximation of convex bodies. II. (English summary) **99d:52005**
Martin, Olivier C. *see* **Percus, Allon G., 99i:60024**
Martini, Horst *see* **Makai, Endre, Jr., 99d:52005**
Molchanov, Ilya S. *see* **Kreinovich, Vladik, 99e:60039**
Mosler, Karl *see* **Koshevoĭ, G. A., 99c:62151**
Muche, Lutz The Poisson Voronoi tessellation. III. Miles' formula. (English summary) **99f:60023**
Percus, Allon G. (*with* Martin, Olivier C.) Scaling universalities of kth-nearest neighbor distances on closed manifolds. (English summary) **99i:60024**
Rataj, Jan Translative and kinematic formulae for curvature measures of flat sections. (English summary) **99j:53099**
Scarsini, Marco *see* **Letac, Gérard, 99k:60023**
Schütt, Carsten Floating body, illumination body, and polytopal approximation. (English summary) **99k:52010**
She, Yan On the sufficient condition for a convex domain to contain another in $\mathbf{R}_{2n}$. (English summary) **99h:52005**
Smirnov, Mikhail M. Radon transforms, symplectic geometry and inverse problem of geometric calculus of variations. (English summary) **99e:53111**
Stoka, Marius On a random variable related to a system of convex bodies in the Euclidean space E_n. (English summary) **99f:60024**
— *see also* **Duma, Andrei, 99c:60018**
Vasil'ev, N. B. (*with* Leontovich, A. M.) An estimate for the randomness of the overlap of figures. (Russian. Russian summary) **99k:60028**
Weil, Wolfgang Mean bodies associated with random closed sets. (English summary) **99b:60016**
— *see also* **Goodey, Paul; et al., 99d:52004**

52A27 Approximation by convex sets

Böröczky, Károly, Jr. (*with* Ludwig, Monika) Approximation of convex bodies and a momentum lemma for power diagrams. (English summary) **99m:52004**
Gordon, Yehoram (*with* Reisner, Shlomo; Schütt, Carsten) Umbrellas and polytopal approximation of the Euclidean ball. (English summary) **99k:52009a**
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Gruber, Peter M. Asymptotic estimates for best and stepwise approximation of convex bodies. IV. (English summary) **99j:52006**
Lassak, Marek Approximation of convex bodies by centrally symmetric bodies. (English summary) **99f:52008**
Ludwig, Monika Asymptotic approximation of convex curves: the Hausdorff metric case. (English summary) **99c:52008**
— *see also* **Böröczky, Károly, Jr.**, **99m:52004**
Reisner, Shlomo *see* **Gordon, Yehoram; et al.**, **99k:52009a** *and* **99k:52009b**
Schütt, Carsten Floating body, illumination body, and polytopal approximation. (English summary) **99k:52010**
— *see also* **Gordon, Yehoram; et al.**, **99k:52009a** *and* **99k:52009b**

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Arzate, Octavio R. Approximation of a solid sphere by a tetrahedral mesh. (Spanish. Spanish summary) (*see* **99f:00013**)
Bárány, Imre (*with* Larman, David G.) The convex hull of the integer points in a large ball. **99i:52014**
Deville, Robert (*with* Fonf, Vladimir; Hájek, Petr[2]) Analytic and polyhedral approximation of convex bodies in separable polyhedral Banach spaces. (English summary) **99h:46006**
Diamond, Phil (*with* Kloeden, Peter E.; Vladimirov, A. A.) Spikes, broken planes and the approximation of convex fuzzy sets. (English summary) **99e:54002**
Fonf, Vladimir *see* **Deville, Robert; et al.**, **99h:46006**
Fuchs, Ulrich *see* **Schwarzkopf, Otfried; et al.**, **99a:52019**
Ginchev, I. (*with* Hoffmann, Armin) The Hausdorff nearest circle to a convex compact set in the plane. (English summary) **99e:52003**
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Hoffmann, Armin *see* **Ginchev, I.**, **99e:52003**
Kloeden, Peter E. *see* **Diamond, Phil; et al.**, **99e:54002**
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Makai, Endre, Jr. (*with* Martini, Horst) The cross-section body, plane sections of convex bodies and approximation of convex bodies. II. (English summary) **99d:52005**
Martini, Horst *see* **Makai, Endre, Jr.**, **99d:52005**
Rote, Günter *see* **Schwarzkopf, Otfried; et al.**, **99a:52019**
Schwarzkopf, Otfried (*with* Fuchs, Ulrich; Rote, Günter; Welzl, Emo) Approximation of convex figures by pairs of rectangles. (English summary) **99a:52019**
Vladimirov, A. A. *see* **Diamond, Phil; et al.**, **99e:54002**
Welzl, Emo *see* **Schwarzkopf, Otfried; et al.**, **99a:52019**

52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)

Breen, Marilyn A staircase analogue of the prison yard problem for orthogonal polygons. (English summary) **99g:52003**
— The dimension of the kernel in planar sets which are starshaped via α-paths. (English summary) **99g:52004**
Cel, Jarosław Sets which are almost starshaped. (English summary) **99i:52007**
Rodríguez, Mabel A. Properties of external visibility. (English summary) **99a:52004**
— Krasnoselsky-type theorems involving outward rays. **99g:52005**

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Cel, Jarosław Characterizing starshaped sets by maximal visibility. (English summary) **99k:46006**
Cuculescu, Ion (*with* Theodorescu, Radu) Multivariate unimodality revisited. (English summary) **99i:60027**
Fink, Eugene (*with* Wood, Derick) Generalized halfspaces in restricted-orientation convexity. (English summary) **99h:52001**
Gardner, Richard J. (*with* Soranzo, Alessandro; Volčič, Aljoša) On the determination of star and convex bodies by section functions. (English summary) **99k:52004**
Koldobsky, Alexander An application of the Fourier transform to sections of star bodies. (English summary) **99k:42011**
Litvak, A. E. (*with* Milman, Vitali D.; Pajor, A.) The covering numbers and "low M^*-estimate" for quasi-convex bodies. (English summary) **99h:52022**
Milman, Vitali D. *see* **Litvak, A. E.; et al.**, **99h:52022**
Pajor, A. *see* **Litvak, A. E.; et al.**, **99h:52022**
Repovš, Dušan D. (*with* Semenov, Pavel V.) A selection theorem for mappings with nonconvex nondecomposable values in L_p-spaces. **99a:54012**
Semenov, Pavel V. *see* **Repovš, Dušan D.**, **99a:54012**
Soranzo, Alessandro *see* **Gardner, Richard J.; et al.**, **99k:52004**
Theodorescu, Radu *see* **Cuculescu, Ion**, **99i:60027**
Volčič, Aljoša *see* **Gardner, Richard J.; et al.**, **99k:52004**
Wood, Derick *see* **Fink, Eugene**, **99h:52001**

52A35 Helly-type theorems

Bretto, A. (*with* Laget, B.) Helly property associated with the discrete planes. (English summary) **99m:52005**
Klain, Daniel A. Kinematic formulas for finite vector spaces. (English summary) **99j:52007**
Laget, B. *see* **Bretto, A.**, **99m:52005**
Swanepoel, Konrad J. Helly-type theorems for hollow axis-aligned boxes. (English summary) **99k:52011**
Webster, Roger An elementary proof of Horn's theorem. (English summary) (*see* **99i:00027**)
Wenger, Rephael Progress in geometric transversal theory. (English summary) **99g:52006**

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Alon, Noga Piercing d-intervals. **99c:05192**
Breen, Marilyn The dimension of the kernel in planar sets which are starshaped via α-paths. (English summary) **99g:52004**
Rodríguez, Mabel A. Krasnoselsky-type theorems involving outward rays. **99g:52005**

52A37 Other problems of combinatorial convexity

Aramyan, R. G. Measure generation in the space of planes, and spherical Euler functionals. (Russian. English and Russian summaries) **99h:52007**
Balaj, Mircea Separation of $(n+1)$-families of sets in general position in $\mathbf{R}^n$. (English summary) **99a:52005**
(Bell, David I.) *see* **Rathbun, Randall L.**
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52A38 Length, area, volume [see also 26B15, 28A75, 49Q20]

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52A39 Mixed volumes and related topics

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Shin, Sung Yong *see* **Kim, Hoi Sub; et al., 99f:68200**
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Singh, Chanchal *see* **Pini, Rita, 99i:52010**
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52A41 Convex functions and convex programs [see also 26B25, 90C25]

Pini, Rita (*with* Singh, Chanchal) (Φ_1, Φ_2)-convexity. (English summary) **99i:52010**
Singh, Chanchal *see* **Pini, Rita, 99i:52010**

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Carrizosa, Emilio (*with* Muñoz-Márquez, M.; Puerto Albandoz, Justo) Location and shape of a rectangular facility in $\mathbf{R}^n$. Convexity properties. (English summary) **99i:90058**
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Hoàng Tụy ★ Convex analysis and global optimization. (English summary) **99i:90001**
Li, Daniel *see* **Godefroy, Gilles, 99m:46013**
Martínez-Legaz, Juan-Enrique (*with* Singer, Ivan) On Φ-convexity of convex functions. (English summary) **99f:49055**
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Mok, Jinsik A six-point characterization of Hilbert spaces. (English summary) **99j:46026**
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Zheng, Xi Yin Series of convex functions on a Banach space. (Chinese. English and Chinese summaries) **99g:49017**

52A55 Spherical and hyperbolic convexity

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52A99 None of the above, but in this section

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52Bxx Polytopes and polyhedra

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52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

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Felikson, A. A. Coxeter decompositions of hyperbolic polygons. (English summary) **99k:52018**
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Günzel, H. On the universal partition theorem for 4-polytopes. (English summary) **99b:52019**
Holt, F. B. (*with* Klee, Victor) Many polytopes meeting the conjectured Hirsch bound. (English summary) **99e:52015**
Klee, Victor *see* **Holt, F. B., 99e:52015**
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Tan, Xuehou Edge guards in straight walkable polygons. (English summary) **99m:52015**
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Valtr, Pavel On galleries with no bad points. (English summary) **99m:52016**

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Andrzejak, Artur (*with* Welzl, Emo) Halving point sets. (English summary) **99h:52020**
Balas, Egon (*with* Fischetti, Matteo) On the monotonization of polyhedra. (English summary) **99b:90095**
Bloch, Ethan D. The angle defect for arbitrary polyhedra. (English summary) **99h:52003**
Brightwell, Graham R. (*with* Trotter, William T.) The order dimension of planar maps. (English summary) **99c:06003**
Dahl, Geir Polytopes related to the l_∞-distance between vectors. (English summary) **99e:90058**
Fischetti, Matteo *see* **Balas, Egon, 99b:90095**
Friedman, Joel Computing Betti numbers via combinatorial Laplacians. (English summary) **99c:52022**
Jendrol', Stanislav A structural property of convex 3-polytopes. (English summary) **99b:52021**
Stefanov, Stefan M. Valid inequalities and cutting planes for some polytopes. (English summary) **99b:90085**
Sturmfels, Bernd Equations defining toric varieties. **99b:14058**
Tarasov, A. S. On the complexity of convex stereohedra. (Russian) **99c:52033**
Trotter, William T. *see* **Brightwell, Graham R., 99c:06003**
Welzl, Emo *see* **Andrzejak, Artur, 99h:52020**

52B10 Three-dimensional polytopes

Aleksandrov, V. A. Flexible polyhedral surfaces. **99i:52012**
Borodin, O. V. Triangulated 3-polytopes without faces of low weight. (English summary) **99g:52009**
Grünbaum, Branko Acoptic polyhedra. (English summary) **99g:52010**

Jendroľ, Stanislav A structural property of convex 3-polytopes. (English summary) **99b:52021**
Owens, Peter John Self-dual non-Hamiltonian polyhedra with only two types of faces. (English summary) **99f:52011**
Ziegler, Günter M. Recent progress on polytopes. (English summary) **99g:52011**

Items with secondary classifications in 52B10

Ahara, Kazushi (*with* Yamada, Kinji) Shapes of hexagrams. **99k:52002**
Har-Peled, Sariel Approximate shortest paths and geodesic diameter on a convex polytope in three dimensions. (English summary) **99m:68083**
Jendroľ, Stanislav (*with* Madaras, Tomáš; Soták, Roman; Tuza, Zsolt) On light cycles in plane triangulations. (English summary) **99j:05055**
Leemans, Dimitri An atlas of regular thin geometries for small groups. (English summary) **99m:51018**
Madaras, Tomáš *see* **Jendroľ, Stanislav; et al., 99j:05055**
Makeev, V. V. On affine images of a rhombo-dodecahedron circumscribed about a three-dimensional convex body. (Russian. English and Russian summaries) **99e:52005**
Marshall, T. H. Truncated tetrahedra and their reflection groups. (English summary) **99b:52017**
Smutný, Peter (*with* Tkáč, Michal) On cubic polyhedral graphs with prescribed adjacency properties of their faces. (English summary) **99j:05123**
Soták, Roman *see* **Jendroľ, Stanislav; et al., 99j:05055**
Sugihara, Kōkichi Resolvable representation of polyhedra. (English summary) **99k:52024**
Tkáč, Michal *see* **Smutný, Peter, 99j:05123**
Tuza, Zsolt *see* **Jendroľ, Stanislav; et al., 99j:05055**
Valtr, Pavel On galleries with no bad points. (English summary) **99m:52016**
Yamada, Kinji *see* **Ahara, Kazushi, 99k:52002**

52B11 n-dimensional polytopes

Bezdek, Károly Light-sources that illuminate the boundary points all but the vertices of a convex polyhedron. (English summary) **99f:52012**
Dawson, Robert J. MacG. (*with* Finbow, Wendy A.; Mak, Philip) Monostatic simplexes. II. (English summary) **99g:52012**
Finbow, Wendy A. *see* **Dawson, Robert J. MacG.; et al., 99g:52012**
Gismondi, S. J. Dueling cubes. (English summary) **99j:52011**
Karimov, A. Z. On the polytope of all bistochastic quadratic operators and the description of the set of its vertices. (Russian. English and Uzbek summaries) **99j:52012**
— Generality of the position on the set of all quadratic topological automorphisms of a finite-dimensional simplex. (Russian. English and Uzbek summaries)
Mak, Philip *see* **Dawson, Robert J. MacG.; et al., 99g:52012**
Saldanha, Nicolau C. (*with* Tomei, Carlos) Spectra of semi-regular polytopes. (English summary) **99f:52013**
Talata, István Solution of Hadwiger-Levi's covering problem for duals of cyclic $2k$-polytopes. (English summary) **99k:52019**
Tomei, Carlos *see* **Saldanha, Nicolau C., 99f:52013**
Ziegler, Günter M. Shelling polyhedral 3-balls and 4-polytopes. (English summary) **99b:52022**

Items with secondary classifications in 52B11

Athanasiadis, Christos A. Piles of cubes, monotone path polytopes, and hyperplane arrangements. (English summary) **99j:52015**
Babson, Eric K. (*with* Billera, Louis J.) The geometry of products of minors. (English summary) **99j:52010**
Bauer, Christina Determination of convex bodies by projection functions. (English summary) **99i:52004**
Bayer, Margaret M. An upper bound theorem for rational polytopes. (English summary) **99e:52013**
Billera, Louis J. *see* **Babson, Eric K., 99j:52010**
Björner, Anders (*with* Linusson, S.) The number of k-faces of a simple d-polytope. (English summary) **99m:52013**
Dahl, Geir (*with* Margot, François) Weak k-majorization and polyhedra. (English summary) **99e:90075**
Grigis, Alain Triangulation du tore de dimension 4. (English and French summaries) [Triangulation of a torus of dimension 4] **99b:52033**
Guo, Shu Guang A necessary and sufficient condition for embeddability in $\mathbf{R}^d$ of a convex polytope with m faces and prescribed dihedral angles. (Chinese. English and Chinese summaries)
Gustafsson, Björn On mother bodies of convex polyhedra. (English summary) **99m:31008**
Hibi, Takayuki *see* **Ohsugi, H., 99k:52023**
Holt, F. B. (*with* Klee, Victor) Many polytopes meeting the conjectured Hirsch bound. (English summary) **99e:52015**
Klee, Victor *see* **Holt, F. B., 99e:52015**
Kołodziejczyk, Krzysztof The boundary characteristic and the volume of lattice polyhedra. (English summary) **99k:52022**
Linusson, S. *see* **Björner, Anders, 99m:52013**
Lopez, Mario Alberto (*with* Reisner, Shlomo) A special case of Mahler's conjecture. (English summary) **99h:52009**
Löwen, Rainer Branching numbers for Euclidean projections onto convex polyhedra. (English summary) **99i:52011**
Margot, François *see* **Dahl, Geir, 99e:90075**
Marshall, T. H. Volume formulae for regular hyperbolic cubes. (English summary) **99i:52008**
McMullen, Peter Isometry covariant valuations on convex bodies. (English summary) **99a:52016**
Ohsugi, H. (*with* Hibi, Takayuki) A normal $(0,1)$-polytope none of whose regular triangulations is unimodular. (English summary) **99k:52023**
Okun'kov, Andreĭ Brunn-Minkowski inequality for multiplicities. **99a:58074**
Reisner, Shlomo *see* **Lopez, Mario Alberto, 99h:52009**
Schmitt, Dominique (*with* Spehner, Jean-Claude) Angular properties of Delaunay diagrams in any dimension. (English summary) **99j:68146**
Spehner, Jean-Claude *see* **Schmitt, Dominique, 99j:68146**

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Babson, Eric K. (*with* Billera, Louis J.; Chan, Clara S.) Neighborly cubical spheres and a cubical lower bound conjecture. (English summary) **99a:52011**
Billera, Louis J. (*with* Ehrenborg, Richard; Readdy, Margaret) The cd-index of zonotopes and arrangements. (English summary) **99h:52011**
— *see also* **Babson, Eric K.; et al., 99a:52011**
Burgiel, H. (*with* Reiner, Victor) Two signed associahedra. (English summary) **99g:52013**
Chan, Clara S. *see* **Babson, Eric K.; et al., 99a:52011**
Ehrenborg, Richard *see* **Billera, Louis J.; et al., 99h:52011**
Horváth, Ákos G. Dissections of a centrally symmetric hexagon. (English summary) **99m:52017**
Hwang, Frank K. (*with* Onn, Shmuel; Rothblum, Uriel G.) Representations and characterizations of vertices of bounded-shape partition polytopes. (English summary) **99f:52014**
Lagarias, Jeffrey C. (*with* Prabhu, Nagabhushana; Reeds, James A.) The parameter space of the d-step conjecture. **99b:52023**
Onn, Shmuel *see* **Hwang, Frank K.; et al., 99f:52014**
Prabhu, Nagabhushana *see* **Lagarias, Jeffrey C.; et al., 99b:52023**
Readdy, Margaret *see* **Billera, Louis J.; et al., 99h:52011**
Reeds, James A. *see* **Lagarias, Jeffrey C.; et al., 99b:52023**
Reiner, Victor *see* **Burgiel, H., 99g:52013**
Rothblum, Uriel G. *see* **Hwang, Frank K.; et al., 99f:52014**
Ryshkov, S. S. On the structure of a primitive parallelohedron and Voronoĭ's last problem. (Russian) **99k:52020**

Items with secondary classifications in 52B12

Babson, Eric K. (*with* Billera, Louis J.) The geometry of products of minors. (English summary) **99j:52010**
Billera, Louis J. (*with* Chan, Clara S.; Liu, Niandong) Flag complexes, labelled rooted trees, and star shellings. (English summary) **99m:52012**
— *see also* **Babson, Eric K., 99j:52010**
Campi, Stefano (*with* Colesanti, Andrea; Gronchi, Paolo) Blaschke-decomposable convex bodies. (English summary) **99g:52001**
Chan, Clara S. *see* **Billera, Louis J.; et al., 99m:52012**
Colesanti, Andrea *see* **Campi, Stefano; et al., 99g:52001**
Crama, Yves (*with* Oosten, Maarten) The polytope of block diagonal matrices and complete bipartite partitionings. (English summary) **99b:05137**
Dahl, Geir Polytopes related to the l_∞-distance between vectors. (English summary) **99e:90058**
Dawson, Robert J. MacG. (*with* Finbow, Wendy A.; Mak, Philip) Monostatic simplexes. II. (English summary) **99g:52012**
Finbow, Wendy A. *see* **Dawson, Robert J. MacG.; et al., 99g:52012**
Grinberg, Eric (*with* Zhang, Gaoyong) Convolutions, transforms, and convex bodies. **99m:52009**
Gronchi, Paolo *see* **Campi, Stefano; et al., 99g:52001**
Horváth, Ákos G. Extremal polygons with minimal perimeter. (English summary) **99a:52029**
Kahn, Jeff (*with* Kayll, P. Mark) On the stochastic independence properties of hard-core distributions. (English summary) **99e:60034**
Karimov, A. Z. On the polytope of all bistochastic quadratic operators and the description of the set of its vertices. (Russian. English and Uzbek summaries) **99j:52012**
Kayll, P. Mark *see* **Kahn, Jeff, 99e:60034**
Koldobsky, Alexander Intersection bodies, positive definite distributions, and the Busemann-Petty problem. (English summary) **99i:52005**
Laurent, Monique A tour d'horizon on positive semidefinite and Euclidean distance matrix completion problems. (English summary) **99c:05135**
Liu, Niandong *see* **Billera, Louis J.; et al., 99m:52012**
Mak, Philip *see* **Dawson, Robert J. MacG.; et al., 99g:52012**
Oosten, Maarten *see* **Crama, Yves, 99b:05137**
Stefanov, Stefan M. Valid inequalities and cutting planes for some polytopes. (English summary) **99b:90085**
Zhang, Gaoyong *see* **Grinberg, Eric, 99m:52009**

52B15 Symmetry properties of polytopes

Buekenhout, Francis (*with* Parker, Monique) The number of nets of the regular convex polytopes in dimension ≤ 4. (English summary) **99f:52015**
Čerin, Zvonko Regular hexagons associated to centroid sharing triangles.
Coxeter, H. S. M. Seven cubes and ten 24-cells. (English summary) **99a:52012**
Grünbaum, Branko (*with* Shephard, G. C.) Isohedra with nonconvex faces. (English summary) **99i:52013**
Koldobsky, Alexander Intersection bodies in $\mathbf{R}^4$. (English summary) **99j:52013**
— Second derivative test for intersection bodies. (English summary) **99j:52014**
Kostant, Bertram The graph of the truncated icosahedron and the last letter of Galois [Notices Amer. Math. Soc. **42** (1995), no. 9, 959–968; MR 96g:52024a]. (Catalan)
McMullen, Peter The groups of the regular star-polytopes. (English summary) **99f:52016**
(Nart, Enric) *see* **Kostant, Bertram**
Parker, Monique *see* **Buekenhout, Francis, 99f:52015**
Rudnitskiĭ, O. I. On invariants of symmetry groups of regular complex polytopes. (English summary) **99g:52014**
Shephard, G. C. *see* **Grünbaum, Branko, 99i:52013**

Items with secondary classifications in 52B15

Grünbaum, Branko Acoptic polyhedra. (English summary) **99g:52010**

Heijmans, Henk J. A. M. *see* **Tuzikov, A. V.; et al., 99k:52014**
Roerdink, Jos B. T. M. *see* **Tuzikov, A. V.; et al., 99k:52014**
Schuster, Wolfgang Regularisierung von Polygonen. (German summary) [Regularization of polygons] **99d:51021**
Sheĭnin, S. A. *see* **Tuzikov, A. V.; et al., 99k:52014**
Tuzikov, A. V. (*with* Roerdink, Jos B. T. M.; Heijmans, Henk J. A. M.; Sheĭnin, S. A.) Measures and indices of reflection symmetry for convex polyhedra. (English summary) **99k:52014**

52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A08, 13F20, 13Hxx]

Acketa, Dragan M. (*with* Matić-Kekić, Snežana; Žunić, Joviša D.) Limitations for the non-symmetric part of lattice convex n-gons with minimum L_∞ diameter. (English summary) **99c:52015**
Bárány, Imre (*with* Larman, David G.) The convex hull of the integer points in a large ball. **99i:52014**
Björner, Anders (*with* Sarkaria, Karanbir S.) The zeta function of a simplicial complex. (English summary) **99f:52017**
Bruns, Winfried (*with* Gubeladze, Joseph; Ngô Viêt Trung) Normal polytopes, triangulations, and Koszul algebras. **99c:52016**
Chen, Beifang Weight functions, double reciprocity laws, and volume formulas for lattice polyhedra. (English summary) **99m:52018**
Deo, Satya Projective dimension of the spline module of piecewise polynomials over manifolds. **99k:52021**
Gubeladze, Joseph *see* **Bruns, Winfried; et al., 99c:52016**
Henk, Martin (*with* Weismantel, Robert) The height of minimal Hilbert bases. (English summary) **99a:52013**
Hibi, Takayuki *see* **Ohsugi, H., 99k:52023**
Kantor, Jean-Michel Triangulations of integral polytopes and Ehrhart polynomials. **99b:52024**
Khovanskiĭ, A. G. Boundary indices of polynomial 1-forms with homogeneous components. (Russian. Russian summary) **99e:52016**
Kołodziejczyk, Krzysztof The boundary characteristic and the volume of lattice polyhedra. (English summary) **99k:52022**
Larman, David G. *see* **Bárány, Imre, 99i:52014**
Matić-Kekić, Snežana *see* **Acketa, Dragan M.; et al., 99c:52015**
Ngô Viêt Trung *see* **Bruns, Winfried; et al., 99c:52016**
Ohsugi, H. (*with* Hibi, Takayuki) A normal $(0,1)$-polytope none of whose regular triangulations is unimodular. (English summary) **99k:52023**
Sarkaria, Karanbir S. *see* **Björner, Anders, 99f:52017**
Tanemura, Masaharu Problems of optimal configuration of points on the sphere. (Japanese. English and Japanese summaries)
Weismantel, Robert *see* **Henk, Martin, 99a:52013**
Žunić, Joviša D. *see* **Acketa, Dragan M.; et al., 99c:52015**

Items with secondary classifications in 52B20

Batyrev, V. V. Mirror symmetry and toric geometry. (English summary) **99k:14063**
Billera, Louis J. (*with* Chan, Clara S.; Liu, Niandong) Flag complexes, labelled rooted trees, and star shellings. (English summary) **99m:52012**
Brion, Michel Piecewise polynomial functions, convex polytopes and enumerative geometry. **99h:14052**
Bukhshtaber, V. M. (*with* Panov, T. E.) Algebraic topology of manifolds defined by simple polyhedra. (Russian) **99m:14098**
Chan, Clara S. *see* **Billera, Louis J.; et al., 99m:52012**
Grigis, Alain Triangulation du tore de dimension 4. (English and French summaries) [Triangulation of a torus of dimension 4] **99b:52033**
Hoşten, Serkan On the complexity of smooth projective toric varieties. (English summary) **99i:14063**
Huber, Birkett (*with* Verschelde, Jan) Polyhedral end games for polynomial continuation. (English summary) **99i:65057**
Liu, Niandong *see* **Billera, Louis J.; et al., 99m:52012**
Panov, T. E. *see* **Bukhshtaber, V. M., 99m:14098**
Sturmfels, Bernd Equations defining toric varieties. **99b:14058**
— Polynomial equations and convex polytopes. **99k:12003**
Verschelde, Jan *see* **Huber, Birkett, 99i:65057**

52B30 Arrangements of hyperplanes

Apéry, François (*with* Yoshida, Masaaki) Pentagonal structure of the configuration space of five points in the real projective line. **99e:52017**
Athanasiadis, Christos A. On free deformations of the braid arrangement. (English summary) **99d:52008**
— Piles of cubes, monotone path polytopes, and hyperplane arrangements. (English summary) **99j:52015**
de Berg, Mark (*with* Halperin, Dan; Overmars, Mark H.; van Kreveld, Marc) Sparse arrangements and the number of views of polyhedral scenes. (English summary) **99a:52014**
Cohen, Daniel C. (*with* Suciu, Alexander I.) Alexander invariants of complex hyperplane arrangements. (English summary) **99m:52019**
Cordovil, Raul The fundamental group of the complement of the complexification of a real arrangement of hyperplanes. (English summary) **99g:52015**
Da Silva, Ilda P. F. (*with* Fukuda, Komei) Isolating points by lines in the plane. (English summary) **99d:52010**
Denham, Graham (*with* Hanlon, Philip J.) On the Smith normal form of the Varchenko bilinear form of a hyperplane arrangement. **99g:52016**
Falk, Michael J. Arrangements and cohomology. (English summary) **99g:52017**
Forge, D. (*with* Ramírez Alfonsín, Jorge L.) Straight line arrangements in the real projective plane. (English summary) **99g:52018**
Fukuda, Komei *see* **Da Silva, Ilda P. F., 99d:52010**
Gaiffi, Giovanni Blowups and cohomology bases for De Concini-Procesi models of subspace arrangements. **99d:52009**
Goodman, Jacob E. (*with* Pollack, Richard M.) Lifting lines to hyperplanes. (English summary) **99b:52025**
Grünbaum, Branko How many triangles? (English summary) **99h:52012**
Halperin, Dan *see* **de Berg, Mark; et al., 99a:52014**
Hanlon, Philip J. *see* **Denham, Graham, 99g:52016**
Imig, Scott K. A construction of logarithmic 1-forms on hyperplane arrangements. (English summary) **99m:52020**
Jacobs, Philippe (*with* Laeremans, Ann) Complex arrangements whose complement has Euler characteristic ± 1. (English summary) **99c:52017**
Jambu, Michel Yves (*with* Papadima, Ştefan) A generalization of fiber-type arrangements and a new deformation method. (English summary) **99g:52019**
Jiang, Tan (*with* Yau, Stephen Shing Toung) Intersection lattices and topological structures of complements of arrangements in $\mathbb{CP}^2$. **99g:52020**
van Kreveld, Marc *see* **de Berg, Mark; et al., 99a:52014**
Laeremans, Ann *see* **Jacobs, Philippe, 99c:52017**
Overmars, Mark H. *see* **de Berg, Mark; et al., 99a:52014**
Papadima, Ştefan *see* **Jambu, Michel Yves, 99g:52019**
Pollack, Richard M. *see* **Goodman, Jacob E., 99b:52025**
Ramírez Alfonsín, Jorge L. *see* **Forge, D., 99g:52018**
Silvotti, Roberto On the Poincaré polynomial of a complement of hyperplanes. **99d:52011**
Solomon, Louis (*with* Terao, Hiroaki) The double Coxeter arrangement. (English summary) **99c:52018**
Suciu, Alexander I. *see* **Cohen, Daniel C., 99m:52019**
Szydlik, Stephen A note on the Poincaré polynomial of an arrangement. (English summary) **99d:52012**
Terao, Hiroaki *see* **Solomon, Louis, 99c:52018**
Yau, Stephen Shing Toung *see* **Jiang, Tan, 99g:52020**
Yoshida, Masaaki *see* **Apéry, François, 99e:52017**

Items with secondary classifications in 52B30

Bezdek, Károly Light-sources that illuminate the boundary points all but the vertices of a convex polyhedron. (English summary) **99f:52012**
Billera, Louis J. (*with* Ehrenborg, Richard; Readdy, Margaret) The cd-index of zonotopes and arrangements. (English summary) **99h:52011**
Douglass, J. Matthew Toral arrangements and hyperplane arrangements. (English summary) **99j:13006**
Ehrenborg, Richard *see* **Billera, Louis J.; et al., 99h:52011**
Erdahl, R. M. Space filling zonotopes and Voronoi's conjecture on parallelohedra. **99h:52028**
Halperin, Dan (*with* Shelton, Christian R.) A perturbation scheme for spherical arrangements with application to molecular modeling. (English summary) **99d:65392**
Ishikawa, Go-o Topology of plane trigonometric curves and the strangeness of plane curves derived from real pseudo-line arrangements. **99h:58019**
Kawahara, Yukihito The mixed Hodge structure on the fundamental group of the fiber type 2-arrangement. (English summary) **99b:14007**
Neusel, Mara D. (*with* Smith, Larry) Polynomial invariants of groups associated to configurations of hyperplanes over finite fields. (English summary) **99c:13009**
Readdy, Margaret *see* **Billera, Louis J.; et al., 99h:52011**
Richter-Gebert, Jürgen The universality theorems for oriented matroids and polytopes. (English summary) **99g:52021**
Shelton, Brad (*with* Yuzvinsky, Sergey) Koszul algebras from graphs and hyperplane arrangements. **99c:16044**
Shelton, Christian R. *see* **Halperin, Dan, 99d:65392**
Smith, Larry *see* **Neusel, Mara D., 99c:13009**
Stanley, Richard P. Hyperplane arrangements, parking functions and tree inversions. **99f:05006**
Yuzvinsky, Sergey *see* **Shelton, Brad, 99c:16044**
Zaharia, Maria Ioachim The homology of the Milnor fiber of a function germ defined on an arrangement of hyperplanes. **99d:32049**

52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [see also 05B35]

Edelman, P. H. (*with* Reiner, Victor) Visibility complexes and the Baues problem for triangulations in the plane. (English summary) **99h:52013**
Jaritz, Renate Geometric ordering in oriented matroids. **99b:52026**
Reiner, Victor *see* **Edelman, P. H., 99h:52013**
Richter-Gebert, Jürgen The universality theorems for oriented matroids and polytopes. (English summary) **99g:52021**

Items with secondary classifications in 52B40

Anderson, Laura Topology of combinatorial differential manifolds. (English summary) **99k:57052**
Bonin, Joseph E. (*with* Kung, Joseph P. S.) The number of points in a combinatorial geometry with no 8-point-line minors. (English summary) **99g:51002**
Borovik, A. V. (*with* Gel'fand, Izrail' Moiseevich; White, Neil) Coxeter matroid polytopes. (English summary) **99d:05016**
Bretto, A. (*with* Laget, B.) Helly property associated with the discrete planes. (English summary) **99m:52005**
Eppstein, David Geometric lower bounds for parametric matroid optimization. (English summary) **99h:90082**
Gel'fand, Izrail' Moiseevich *see* **Borovik, A. V.; et al., 99d:05016**
Kochol, Martin Partial intersection theorem and flows in abstract networks. (English summary) **99d:90046**

Kung, Joseph P. S. *see* **Bonin, Joseph E., 99g:51002**
Laget, B. *see* **Bretto, A., 99m:52005**
White, Neil *see* **Borovik, A. V.; et al., 99d:05016**
Zhang, Yan[5] A condition ensuring convexity of Bernstein-Bézier surfaces over $(n-1)$-hedra. (Chinese. English and Chinese summaries)

52B45 Dissections and valuations (Hilbert's third problem, etc.)

Alesker, Semyon Continuous valuations on convex sets. **99b:52027**
Chen, Beifang (*with* Yan, Min) Eulerian stratification of polyhedra. (English summary) **99g:52022**
— (*with* Yan, Min) The geometric cone relations for simplicial and cubical complexes. (English summary) **99a:52015**
Hudelson, Matthew Dissecting d-cubes into smaller d-cubes. (English summary) **99b:52028**
Jepsen, Charles (*with* Yang, Roc) Making squares from Pythagorean triangles. **99h:52014**
Kántor, Sándor On the area of a polygon in the hyperbolic plane. **99i:52015**
McMullen, Peter Isometry covariant valuations on convex bodies. (English summary) **99a:52016**
Yan, Min *see* **Chen, Beifang, 99a:52015** *and* **99g:52022**
Yang, Roc *see* **Jepsen, Charles, 99h:52014**

Items with secondary classifications in 52B45

Greenberg, Peter Area preserving pl homeomorphisms and relations in K_2. (English and French summaries) **99d:19001**

52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx.}

Agarwal, Pankaj K. (*with* Aronov, Boris; Chan, Timothy M.; Sharir, Micha) On levels in arrangements of lines, segments, planes, and triangles. (English summary) **99b:52029**
— (*with* O'Rourke, Joseph) Computational geometry column 34. (English summary) **99f:52018**
Aronov, Boris (*with* Davis, A. R.; Dey, Tamal K.; Pal, Sudebkumar Prasant; Prasad, D. Chithra) Visibility with one reflection. (English summary) **99c:52019**
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Grünbaum, Branko Realizations of symmetric maps by symmetric polyhedra. (English summary) **99g:52024**
Iwasaki, Katsunori Polyhedral harmonics. **99b:52034**
de Loera, J. A. (*with* Santos, F.; Urrutia, Jorge) The number of geometric bistellar neighbors of a triangulation. (English summary) **99k:52025**
Santos, F. *see* **de Loera, J. A.; et al., 99k:52025**
Shah, Nimish R. *see* **Dey, Tamal K., 99b:52032**
Sparla, Eric ★ Geometrische und kombinatorische Eigenschaften triangulierter Mannigfaltigkeiten. (German) [Geometric and combinatorial properties of triangulated manifolds] **99i:52016**
Urrutia, Jorge *see* **de Loera, J. A.; et al., 99k:52025**
Yan, Min f-vectors of polyhedra. (English summary) **99a:52022**

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Aleksandrov, V. A. Flexible polyhedral surfaces. **99i:52012**
Bukhshtaber, V. M. (*with* Panov, T. E.) Algebraic topology of manifolds defined by simple polyhedra. (Russian) **99m:14098**
Chen, Beifang (*with* Yan, Min) Eulerian stratification of polyhedra. (English summary) **99g:52022**
Datta, Basudeb Pseudomanifolds with complementarity. (English summary) **99h:57045**
Hinokuma, Takanori (*with* Shiga, Hiroo) Topology of the configuration space of polygons as a codimension one submanifold of a torus. (English summary) **99i:57043**
Hong, Mu (*with* Sederberg, Thomas W.; Klimaszewski, Krzysztof S.; Kaneda, Kazufumi) Triangulation of branching contours using area minimization. (English summary) **99d:68232**
Kamiyama, Yasuhiko The homology of singular polygon spaces. (English summary) **99g:14026**
Kaneda, Kazufumi *see* **Hong, Mu; et al., 99d:68232**
Kettner, Lutz (*with* Welzl, Emo) Contour edge analysis for polyhedron projections. (English summary) (*see* **99d:65003**)
Klimaszewski, Krzysztof S. *see* **Hong, Mu; et al., 99d:68232**
Kühnel, Wolfgang Equilibrium decompositions of 4-manifolds, and abstract regular 5-polytopes. (English summary) **99d:57013**
— Topological aspects of twofold triple systems. (English summary) **99j:05027**
Löwen, Rainer Branching numbers for Euclidean projections onto convex polyhedra. (English summary) **99i:52011**
Panov, T. E. *see* **Bukhshtaber, V. M., 99m:14098**
Schenck, Henry K. (*with* Stillman, Michael) Local cohomology of bivariate splines. (English summary) **99d:13011**
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Shiga, Hiroo *see* **Hinokuma, Takanori, 99i:57043**
Stillman, Michael *see* **Schenck, Henry K., 99d:13011**
Veech, W. A. Delaunay partitions. **99c:57041**
Welzl, Emo *see* **Kettner, Lutz, (99d:65003)**
Yan, Min *see* **Chen, Beifang, 99g:52022**

52B99 None of the above, but in this section

Du, Chongjiang A note on finding nearest neighbours and constructing Delaunay triangulation in the plane. (English summary) **99m:52021**
O'Rourke, Joseph Open problems in the combinatorics of visibility and illumination. (English summary) **99g:52025**
Sharir, Micha Arrangements of surfaces in higher dimensions. (English summary) **99g:52026**

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Terhalle, Werner F. R-trees and symmetric differences of sets. (English summary) **99e:05035**

52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

Alarcon, Eberth An extremal result on convex lattice polygons. (English summary) **99h:52018**
Alpers, Karsten (*with* Quaisser, Erhard) Lattices in the pseudo-Euclidean plane. (English summary) **99g:52027**
Diamond, Phil (*with* Kloeden, Peter E.; Kozyakin, V. S.; Pokrovskiĭ, A. V.) Boundedness and dissipativity of truncated rotations on uniform planar lattices. (English summary) **99f:52020**
Hernández Cifre, M. A. (*with* Scott, Paul R.) An isodiametric problem with lattice-point constraints. (English summary) **99d:52013**
— (*with* Segura Gomis, S.) Some inequalities for planar convex sets containing one lattice point. (English summary) **99h:52019**
— (*with* Segura Gomis, S.) Some area-diameter inequalities for two-dimensional lattices. (English summary) **99i:52017**
Kloeden, Peter E. *see* **Diamond, Phil; et al., 99f:52020**
Kozyakin, V. S. *see* **Diamond, Phil; et al., 99f:52020**
Pokrovskiĭ, A. V. *see* **Diamond, Phil; et al., 99f:52020**
Quaisser, Erhard *see* **Alpers, Karsten, 99g:52027**
Scott, Paul R. *see* **Hernández Cifre, M. A., 99d:52013**
Segura Gomis, S. *see* **Hernández Cifre, M. A., 99h:52019** *and* **99i:52017**
Žunić, Joviša D. Limit shape of convex lattice polygons having the minimal L_∞ diameter w.r.t. the number of their vertices. (English summary) **99j:52017**

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Acketa, Dragan M. (*with* Matić-Kekić, Snežana; Žunić, Joviša D.) Limitations for the non-symmetric part of lattice convex n-gons with minimum L_∞ diameter. (English summary) **99c:52015**
Bretto, A. (*with* Laget, B.) Helly property associated with the discrete planes. (English summary) **99m:52005**
Di Francesco, Philippe Folding the square-diagonal lattice. (English summary) **99k:82033**
Laget, B. *see* **Bretto, A., 99m:52005**
Matić-Kekić, Snežana *see* **Acketa, Dragan M.; et al., 99c:52015**
Veech, W. A. Delaunay partitions. **99c:57041**
Žunić, Joviša D. Notes on optimal convex lattice polygons. (English summary) **99k:11102**
— *see also* **Acketa, Dragan M.; et al., 99c:52015**

52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

Awyong, Poh Wah (*with* Henk, Martin; Scott, Paul R.) Note on lattice-point-free convex bodies. (English summary) **99e:52019**
Barache, Damien (*with* Champagne, Bernard; Gazeau, Jean Pierre) Pisot-cyclotomic quasilattices and their symmetry semigroups. (English summary) **99g:52028**
Böröczky, Károly, Jr. Lattice points in large bodies. (English summary) **99b:52035**
Braß, Peter Isoperimetric inequalities for densities of lattice-periodic sets. (English summary) **99m:52022**
Champagne, Bernard *see* **Barache, Damien; et al., 99g:52028**
Cieśliński, Jan The cross ratio and Clifford algebras. (English summary) **99b:52036**
Cotfas, Nicolae On the self-similarities of a model set. (English summary)
Gazeau, Jean Pierre *see* **Barache, Damien; et al., 99g:52028**
Gruber, Boris Classification of lattices: a new step. (English summary) **99c:52025**
Harborth, Heiko Integral distances in point sets. (English summary) (*see* **99i:00015**)
Henk, Martin *see* **Awyong, Poh Wah; et al., 99e:52019**
Horváth, Ákos G. On Dirichlet-Voronoi cell. II. Diagrams. (English summary) **99j:52018**
Leppmeier, Max Kugelpackungen und Wurstkatastrophen oder Zur Theorie der finiten und infiniten Packungen. [Sphere packings and sausage catastrophes or On the theory of finite and infinite packings] **99i:52018**
Maehara, Hiroshi Embedding a set of rational points in lower dimensions. (English summary) **99j:52019**
Mermin, N. David The symmetry of crystals. (English summary) **99a:52023**
Pitteri, Mario (*with* Zanzotto, Giovanni) Beyond space groups: the arithmetic symmetry of deformable multilattices. (English summary) **99d:52014**
Raffke, Werner W. A. A box in a grid. **99m:52023**
Schlottmann, Martin Cut-and-project sets in locally compact abelian groups. (English summary) **99f:52021**
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Zanzotto, Giovanni *see* **Pitteri, Mario, 99d:52014**
Zong, C. A note on Hornich's problem. (English summary) **99k:52026**

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Banaszczyk, Wojciech Balancing vectors and Gaussian measures of n-dimensional convex bodies. (English summary) **99k:52013**
Banihashemi, Amir H. (*with* Khandani, Amir K.) On the decoding complexity of lattices. (English summary) **99k:11099**
— (*with* Khandani, Amir K.) An inequality on the coding gain of densest lattice packings in successive dimensions. (English summary) **99k:11103**
Böröczky, Károly, Jr. (*with* Schnell, Uwe) Wulff shape for nonperiodic arrangements. (English summary) **99e:52024**
Ceresole, Anna (*with* Rasetti, Mario; Zecchina, R.) Geometry, topology, and physics of non-abelian lattices. **99e:82014**
Chen, Yong-Gao (*with* Cusick, Thomas W.) The view-obstruction problem for n-dimensional cubes. (English summary) **99m:11079**
Cusick, Thomas W. *see* **Chen, Yong-Gao, 99m:11079**
Deza, Michel-Marie (*with* Grishukhin, V. P.) Odd systems of vectors and related lattices. (English summary) **99k:11101**

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Fejes Tóth, Gábor Recent progress on packing and covering. (English summary) **99g:52036**
Grishukhin, V. P. *see* **Deza, Michel-Marie**, **99h:11073** *and* **99k:11101**
Halter-Koch, Franz The integral closure of a finitely generated monoid and the Frobenius problem in higher dimensions. (English summary) (*see* **99f:20003**)
Hof, A. Uniform distribution and the projection method. (English summary) **99g:54037**
Khandani, Amir K. *see* **Banihashemi, Amir H.**, **99k:11099** *and* **99k:11103**
Kolushov, A. V. (*with* Yudin, Vladimir Aleksandrovich) Extremal dispositions of points on the sphere. (Russian summary) **99f:41039**
McMullen, Peter Isometry covariant valuations on convex bodies. (English summary) **99a:52016**
Mitra, Pinaki (*with* Nandy, Subhas C.) Efficient computation of rectilinear geodesic Voronoi neighbor in the presence of obstacles. (English summary) **99d:68238**
Nandy, Subhas C. *see* **Mitra, Pinaki**, **99d:68238**
Rasetti, Mario *see* **Ceresole, Anna; et al.**, **99e:82014**
Schnell, Uwe *see* **Böröczky, Károly, Jr.**, **99e:52024**
Yudin, Vladimir Aleksandrovich *see* **Kolushov, A. V.**, **99f:41039**
Zecchina, R. *see* **Ceresole, Anna; et al.**, **99e:82014**

52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

Ábrego Lerma, Bernardo Manuel The Sylvester theorem. (Spanish) **99k:52027**
Andreev, Nikolaĭ N. Location of points on a sphere with minimal energy. (Russian) **99i:52019**
Andrzejak, Artur (*with* Welzl, Emo) Halving point sets. (English summary) **99h:52020**
Bárány, Imre (*with* Valtr, Pavel) A positive fraction Erdős-Szekeres theorem. (English summary) **99a:52024**
Braß, Peter On the diameter of sets with maximum number of unit distances. **99g:52029**
Chung, F. R. K. (*with* Graham, Ronald L.) Forced convex n-gons in the plane. (English summary) **99e:52020**
Csizmadia, György The multiplicity of the two smallest distances among points. (English summary) **99j:52020**
Erdős, Paul[1] (*with* Fishburn, Peter C.) Duplicated distances in subsets of finite planar sets.
Fishburn, Peter C. *see* **Erdős, Paul**[1]
García, Alfredo (*with* Tejel, F. Javier) A lower bound for the number of polygonizations of N points in the plane. (English summary) **99g:52030**
Graham, Ronald L. *see* **Chung, F. R. K.**, **99e:52020**
Katchalski, M. (*with* Last, H.) On geometric graphs with no two edges in convex position. (English summary) **99d:52015**
Kleitman, Daniel J. (*with* Pachter, Lior) Finding convex sets among points in the plane. (English summary) **99e:52021**
Last, H. *see* **Katchalski, M.**, **99d:52015**
Pach, János (*with* Sharir, Micha) On the number of incidences between points and curves. (English summary) **99b:52037**
— (*with* Solymosi, József) Canonical theorems for convex sets. (English summary) **99a:52025**
— (*with* Tóth, Géza) A generalization of the Erdős-Szekeres theorem to disjoint convex sets. (English summary) **99b:52038**
— (*with* Thiele, Torsten; Tóth, Géza) Three-dimensional grid drawings of graphs. (English summary) **99g:52031**
— (*with* Solymosi, József) Halving lines and perfect cross-matchings. (English summary) **99i:52020**
Pachter, Lior *see* **Kleitman, Daniel J.**, **99e:52021**
Sharir, Micha *see* **Pach, János**, **99b:52037**
Soifer, Alexander Packing clones in convex figures.
Solymosi, József *see* **Pach, János**, **99a:52025** *and* **99i:52020**
Spencer, Joel H. Geometric discrepancy theory. (English summary) **99g:52032**
Swanepoel, Konrad J. Cardinalities of k-distance sets in Minkowski spaces. (English summary) **99k:52028**
Tejel, F. Javier *see* **García, Alfredo**, **99g:52030**
Thiele, Torsten *see* **Pach, János; et al.**, **99g:52031**
Tóth, Géza (*with* Valtr, Pavel) Note on the Erdős-Szekeres theorem. (English summary) **99e:52022**
— *see also* **Pach, János**, **99b:52038** *and* **99g:52031**
Valtr, Pavel *see* **Bárány, Imre**, **99a:52024** *and* **Tóth, Géza**, **99e:52022**
Welzl, Emo *see* **Andrzejak, Artur**, **99h:52020**

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Fejes Tóth, Gábor Recent progress on packing and covering. (English summary) **99g:52036**
Károlyi, Gyula (*with* Pach, János; Tóth, Géza; Valtr, Pavel) Ramsey-type results for geometric graphs. II. (English summary) **99i:05145**
Martini, Horst (*with* Schöbel, Anita) Median hyperplanes in normed spaces—a survey. (English summary) **99h:65242**
Pach, János *see* **Károlyi, Gyula; et al.**, **99i:05145**
Schöbel, Anita *see* **Martini, Horst**, **99h:65242**
Sharir, Micha Arrangements of surfaces in higher dimensions. (English summary) **99g:52026**
Tan, Xuehou Edge guards in straight walkable polygons. (English summary) **99m:52015**
Tóth, Géza *see* **Károlyi, Gyula; et al.**, **99i:05145**
Valtr, Pavel On galleries with no bad points. (English summary) **99m:52016**
— *see also* **Károlyi, Gyula; et al.**, **99i:05145**

52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

Agarwal, Pankaj K. (*with* Amenta, Nina; Sharir, Micha) Largest placement of one convex polygon inside another. (English summary) **99c:52026**
Amenta, Nina *see* **Agarwal, Pankaj K.; et al.**, **99c:52026**
Bezdek, András (*with* Kuperberg, Włodzimierz) Circle covering with a margin. (English summary) **99a:52026**
Bowers, Philip L. (*with* Stephenson, Kenneth) A "regular" pentagonal tiling of the plane. (English summary) **99d:52016**
Dubejko, Tomasz Circle-packing connections with random walks and a finite volume method. (English summary) **99b:52039**
— Random walks on circle packings. (English summary) **99d:52017**
Eppstein, David Faster circle packing with application to nonobtuse triangulation. (English summary) **99d:52018**
Friedman, Erich Packing unit squares in squares: a survey and new results. (English summary) **99k:52029**
Graham, Ronald L. (*with* Lubachevsky, B. D.; Nurmela, Kari J.; Östergård, Patric R. J.) Dense packings of congruent circles in a circle. (English summary) **99b:52040**
He, Zheng-Xu (*with* Schramm, Oded) The C^∞-convergence of hexagonal disk packings to the Riemann map. **99j:52021**
Kuperberg, Włodzimierz *see* **Bezdek, András**, **99a:52026**
Lubachevsky, B. D. *see* **Graham, Ronald L.; et al.**, **99b:52040**
Mathéus, Frédéric Empilements de cercles et théorème de Liouville (d'après T. Dubejko). [Circle packings and Liouville's theorem (following T. Dubejko)] (*see* **99b:53003**)
McCaughan, Gareth A recurrence/transience result for circle packings. (English summary) **99b:52041**
Mohar, Bojan Circle packings of maps in polynomial time. (English summary) **99f:52022**
Nurmela, Kari J. ★ Stochastic optimization methods in sphere packing and covering problems in discrete geometry and coding theory. **99h:52021**
— *see also* **Graham, Ronald L.; et al.**, **99b:52040** *and* **Östergård, Patric R. J.**, **99g:52033**
Östergård, Patric R. J. (*with* Nurmela, Kari J.) A circle packing problem—or: how to fit the bottles in the basket. (Swedish. English summary) **99g:52033**
— *see also* **Graham, Ronald L.; et al.**, **99b:52040**
Schramm, Oded *see* **He, Zheng-Xu**, **99j:52021**
Sharir, Micha *see* **Agarwal, Pankaj K.; et al.**, **99c:52026**
Siders, Ryan Layered circlepackings and the type problem. (English summary) **99a:52027**
Steiger, William (*with* Streinu, Ileana) Illumination by floodlights. (English summary) **99b:52042**
Stephenson, Kenneth A probabilistic proof of Thurston's conjecture on circle packings. (English summary) **99m:52024**
— *see also* **Bowers, Philip L.**, **99d:52016**
Streinu, Ileana *see* **Steiger, William**, **99b:52042**
Tarnai, Tibor Note on packings in Grassmannian space $G(3, 1)$. (English summary) **99g:52034**

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Bowers, Philip L. Negatively curved graph and planar metrics with applications to type. **99f:53034**
Bryant, Darryn E. (*with* Diamond, Phil; Vladimirov, Igor) Generalized optimal lattice covering of finite-dimensional Euclidean space. (English summary) **99j:52022**
Coffman, E. G., Jr. (*with* Flajolet, Philippe; Flatto, Leopold; Hofri, Micha) The maximum of a random walk and its application to rectangle packing. (English summary) **99f:60127**
Diamond, Phil *see* **Bryant, Darryn E.; et al.**, **99j:52022**
Dubejko, Tomasz Infinite branched circle packings and discrete complex polynomials. **99h:05025**
Farin, Gerald E. *see* **Gross, Lee Michael**, (**99k:00039**)
Fejes Tóth, Gábor Recent progress on packing and covering. (English summary) **99g:52036**
Flajolet, Philippe *see* **Coffman, E. G., Jr.; et al.**, **99f:60127**
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Gross, Lee Michael (*with* Farin, Gerald E.) A transfinite form of Sibson's interpolant. (English summary) (*see* **99k:00039**)
Gruber, Peter M. Asymptotic estimates for best and stepwise approximation of convex bodies. IV. (English summary) **99j:52006**
He, Zheng-Xu (*with* Schramm, Oded) On the distortion of relative circle domain isomorphisms. (English summary) **99k:30007**
Hofri, Micha *see* **Coffman, E. G., Jr.; et al.**, **99f:60127**
Janardan, Ravi *see* **Smid, Michiel H. M.**, **99j:65261**
Mauldin, R. Daniel (*with* Urbański, Mariusz) Dimension and measures for a curvilinear Sierpinski gasket or Apollonian packing. (English summary) **99h:28015**
Schramm, Oded *see* **He, Zheng-Xu**, **99k:30007**
Smid, Michiel H. M. (*with* Janardan, Ravi) On the width and roundness of a set of points in the plane. (English summary) **99j:65261**
Soifer, Alexander Packing clones in convex figures.
Urbański, Mariusz *see* **Mauldin, R. Daniel**, **99h:28015**
Vladimirov, Igor *see* **Bryant, Darryn E.; et al.**, **99j:52022**

52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

Banihashemi, Amir H. (*with* Khandani, Amir K.) An inequality on the coding gain of densest lattice packings in successive dimensions. (English summary) **99d:52019**
Betke, U. (*with* Henk, Martin) Finite packings of spheres. (English summary) **99e:52023**
Bezdek, András (*with* Bezdek, Károly; Connelly, Robert) Finite and uniform stability of sphere packings. (English summary) **99c:52027**
Bezdek, Károly (*with* Connelly, Robert) The minimum mean width translation cover for sets of diameter one. (English summary) **99i:52021**
— *see also* **Bezdek, András; et al.**, **99c:52027**
Böröczky, Károly, Jr. (*with* Schnell, Uwe) Asymptotic shape of finite packings. (English summary) **99g:52035**
— (*with* Schnell, Uwe) Wulff shape for nonperiodic arrangements. (English summary) **99e:52024**
Bryant, Darryn E. (*with* Diamond, Phil; Vladimirov, Igor) Generalized optimal lattice covering of finite-dimensional Euclidean space. (English summary) **99j:52022**

Cho, Minshik On the optimal covering of equal metric balls in a sphere. (English summary) **99b:52043**
Connelly, Robert *see* **Bezdek, András; et al., 99c:52027** *and* **Bezdek, Károly, 99i:52021**
Diamond, Phil *see* **Bryant, Darryn E.; et al., 99j:52022**
Fejes Tóth, Gábor (*with* Kuperberg, Greg; Kuperberg, Włodzimierz) Highly saturated packings and reduced coverings. (English summary) **99a:52028**
— Recent progress on packing and covering. (English summary) **99g:52036**
Florian, August Some recent results in discrete geometry. **99b:52044**
Gurin, A. M. Rigid packings of balls. (Russian. English, Russian and Ukrainian summaries) **99e:52025**
Henk, Martin Kugeln im Computer: ein Beweis der Keplerschen Vermutung? (German summary) [Spheres in the computer: a proof of Kepler's conjecture?]
— *see also* **Betke, U., 99e:52023**
Heppes, Aladár (*with* Melissen, Hans) Covering a rectangle with equal circles. (English summary) **99b:52045**
Horváth, Ákos G. Extremal polygons with minimal perimeter. (English summary) **99a:52029**
Horváth, Jenő (*with* Temesvári, Ágota H.) Über die Enge von Kugelpackungen und Dicke von Punktsystemen im sphärischen Raum. (English summary) [On the closeness of packings of balls and the thickness of point systems in spherical space] **99a:52030**
Ismailescu, D. Covering the plane with copies of a convex disk. (English summary) **99e:52026**
Kellerhals, Ruth Ball packings in spaces of constant curvature and the simplicial density function. **99b:52046**
Khandani, Amir K. *see* **Banihashemi, Amir H., 99d:52019**
Kotlyar, B. D. A problem in packing theory. (Russian) **99g:52037**
Kuperberg, Greg *see* **Fejes Tóth, Gábor; et al., 99a:52028**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor; et al., 99a:52028**
Larman, David G. (*with* Zong, C.) On the kissing numbers of some special convex bodies. (English summary) **99k:52030**
Lassak, Marek Covering a three-dimensional convex body by smaller homothetic copies. (English summary) **99f:52023**
Litvak, A. E. (*with* Milman, Vitali D.; Pajor, A.) The covering numbers and "low M^*-estimate" for quasi-convex bodies. (English summary) **99h:52022**
Melissen, Hans How different can colours be? Maximum separation of points on a spherical octant. (English summary) **99c:52028**
— *see also* **Heppes, Aladár, 99b:52045**
Milman, Vitali D. *see* **Litvak, A. E.; et al., 99h:52022**
Musès, Charles The dimensional family approach in (hyper)sphere packing: a typological study of new patterns, structures, and interdimensional functions. (English summary) **99a:52031a**
— Erratum: "The dimensional family approach in (hyper)sphere packing: a typological study of new patterns, structures, and interdimensional functions". **99a:52031b**
— Erratum: "The dimensional family approach in (hyper)sphere packing: a typological study of new patterns, structures, and interdimensional functions" [Appl. Math. Comput. **88** (1997), no. 1, 1–26; MR 99a:52031a].
O'Keeffe, M. Sphere packings and space filling by congruent simple polyhedra. (English summary) **99a:52032**
Pajor, A. *see* **Litvak, A. E.; et al., 99h:52022**
Schnell, Uwe *see* **Böröczky, Károly, Jr., 99e:52024** *and* **99g:52035**
Shor, Peter W. (*with* Sloane, Neil J. A.) A family of optimal packings in Grassmannian manifolds. (English summary) **99b:52047**
Sloane, Neil J. A. The sphere packing problem. (English summary) **99j:52023**
— *see also* **Shor, Peter W., 99b:52047**
Temesvári, Ágota H. *see* **Horváth, Jenő, 99a:52030**
Vardy, Alexander Density doubling, double-circulants, and new sphere packings. (English summary) **99c:52029**
Vladimirov, Igor *see* **Bryant, Darryn E.; et al., 99j:52022**
Wills, J. M. Parametric density, online-packings and crystal growth. (English summary) **99i:52022**
— Spheres and sausages, crystals and catastrophes—and a joint packing theory. **99b:52048**
Zong, C. *see* **Larman, David G., 99k:52030**

Items with secondary classifications in 52C17

Aste, Tomaso *see* **Rivier, Nicolas, 99a:49047**
Corti, David S. *see* **Sastry, Srikanth; et al., 99a:82055**
Debenedetti, Pablo G. *see* **Sastry, Srikanth; et al., 99a:82055** *and* **99a:82056**
Kelly, A. *see* **Parkhouse, J. G., 99d:73065**
Leppmeier, Max Kugelpackungen und Wurstkatastrophen oder Zur Theorie der finiten und infiniten Packungen. [Sphere packings and sausage catastrophes or On the theory of finite and infinite packings] **99i:52018**
Martínez, José Mario Augmented Lagrangians and sphere packing problems. (English summary) **99k:90136**
Meng, Bo Qin Sphere-packing problems in a class of Orlicz spaces. (Chinese. English and Chinese summaries)
Nurmela, Kari J. ★ Stochastic optimization methods in sphere packing and covering problems in discrete geometry and coding theory. **99h:52021**
Parkhouse, J. G. (*with* Kelly, A.) The regular packing of fibres in three dimensions. (English summary) **99d:73065**
Rieger, Georg Johann On the modular figure and Ford-spheres. (English summary) **99a:11082**
Rivier, Nicolas (*with* Aste, Tomaso) Organized packing. **99a:49047**
Sastry, Srikanth (*with* Corti, David S.; Debenedetti, Pablo G.; Stillinger, Frank H.) Statistical geometry of particle packings. I. Algorithm for exact determination of connectivity, volume, and surface areas of void space in monodisperse and polydisperse sphere packings. (English summary) **99a:82055**
— (*with* Debenedetti, Pablo G.; Stillinger, Frank H.) Statistical geometry of particle packings. II. "Weak spots" in liquids. (English summary) **99a:82056**
Stillinger, Frank H. *see* **Sastry, Srikanth; et al., 99a:82055** *and* **99a:82056**
Talata, István Solution of Hadwiger-Levi's covering problem for duals of cyclic $2k$-polytopes. (English summary) **99k:52019**
Tian, Guang Yue (*with* Wang, Jun Ming) The general ball-packing problem in Banach spaces. (Chinese. English and Chinese summaries) **99d:46021**
Wang, Jun Ming *see* **Tian, Guang Yue, 99d:46021**
Zong, C. A note on Hornich's problem. (English summary) **99k:52026**

52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

Bandt, Christoph (*with* Gummelt, P.) Fractal Penrose tilings. I. Construction and matching rules. (English summary) **99b:52049**
Ciucu, Mihai Enumeration of lozenge tilings of punctured hexagons. (English summary) **99e:52027**
Friedman, Erich Heesch tiles with surround numbers 3 and 4.
Furukado, Maki (*with* Ito, Shunji) The quasi-periodic tiling of the plane and Markov subshifts. **99f:52024**
Gelbrich, Götz Fractal Penrose tiles. II. Tiles with fractal boundary as duals of Penrose triangles. (English summary) **99b:52050**
Gummelt, P. *see* **Bandt, Christoph, 99b:52049**
Huson, Daniel H. Visualization of periodic tilings. (English summary) (*see* **99g:68212**)
Ito, Kenichi Domino tilings on orientable surfaces. (English summary) **99j:52024**
Ito, Shunji *see* **Furukado, Maki, 99f:52024**
Johnson, Aimee S. A. (*with* Madden, Kathleen M.) Putting the pieces together: understanding Robinson's nonperiodic tilings. **99a:52033**
Keating, Kevin (*with* King, Jonathan L.) Signed tilings with squares. (English summary) **99m:52025**
Kenyon, Richard Tilings and discrete Dirichlet problems. (English summary) **99m:52026**
King, Jonathan L. *see* **Keating, Kevin, 99m:52025**
Laczkovich, Miklós Tilings of polygons with similar triangles. II. (English summary) **99f:52025**
Madden, Kathleen M. *see* **Johnson, Aimee S. A., 99a:52033**
Makai, Endre, Jr. *see* **Martini, Horst; et al., 99i:52023**
Margulis, Grigorii A. (*with* Mozes, Shahar) Aperiodic tilings of the hyperbolic plane by convex polygons. (English summary) **99k:52031**
Martini, Horst (*with* Makai, Endre, Jr.; Soltan, V. P.) Unilateral tilings of the plane with squares of three sizes. (English summary) **99i:52023**
Matoušek, Jiří Geometric set systems. (English summary) **99j:52025**
Moran, Judith Flagg The growth rate and balance of homogeneous tilings in the hyperbolic plane. (English summary) **99h:52023**
Mozes, Shahar *see* **Margulis, Grigorii A., 99k:52031**
Paulhus, Marc M. An algorithm for packing squares. (English summary) **99e:52028**
Rémila, Eric Tiling groups: new applications in the triangular lattice. (English summary) **99i:52024**
Sadun, Lorenzo Some generalizations of the pinwheel tiling. (English summary) **99e:52029**
Schattschneider, Doris Escher's combinatorial patterns. (English summary) **99b:52051**
Senechal, Marjorie Periodic and aperiodic tilings of E^n. (English summary) **99g:52038**
Shephard, G. C. Some properties of coronas. (English summary) **99c:52030**
— Correction: "Some properties of coronas" [Results Math. **33** (1998), no. 3-4, 356–363; MR 99c:52030].
Soltan, V. P. *see* **Martini, Horst; et al., 99i:52023**
Stamer, Meike Penrose-Parkette—ein faszinierendes Puzzlespiel. [Penrose tilings—a fascinating puzzle] (*see* **99d:00011**)
Veerman, J. J. P. Two-dimensional generalizations of Haar bases. **99b:52052**
Woess, Wolfgang A note on tilings and strong isoperimetric inequality. (English summary) **99f:52026**

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Baake, Michael Algebraic solution of the coincidence problem for crystals and quasicrystals. (English summary) (*see* **99f:82002**)
— (*with* Moody, Robert V.; Schlottmann, Martin) Limit-(quasi)periodic point sets as quasicrystals with p-adic internal spaces. (English summary) **99f:82061**
— *see also* **Richard, Christoph; et al., 99g:82033**
Benedek, Agnes (*with* Panzone, Rafael) On the tame dragon. (English summary) **99c:11010**
Böröczky, Károly, Jr. (*with* Ludwig, Monika) Approximation of convex bodies and a momentum lemma for power diagrams. (English summary) **99m:52004**
Bowers, Philip L. (*with* Stephenson, Kenneth) A "regular" pentagonal tiling of the plane. (English summary) **99d:52016**
Dolbilin, Nikolai *see* **Schattschneider, Doris, 99k:52034**
Fricke, Jan Quadratzerlegung eines Rechtecks. (German summary) [Partitioning a rectangle into squares] **99b:05030**
Hermisson, J. *see* **Richard, Christoph; et al., 99g:82033**
Hof, A. Percolation on Penrose tilings. (English summary) **99d:60109**
Höffe, M. *see* **Richard, Christoph; et al., 99g:82033**
Kenyon, Richard Local statistics of lattice dimers. (English and French summaries) **99b:82039**
Ludwig, Monika *see* **Böröczky, Károly, Jr., 99m:52004**
Moody, Robert V. *see* **Baake, Michael; et al., 99f:82061**
Pachter, Lior Combinatorial approaches and conjectures for 2-divisibility problems concerning domino tilings of polyominoes. (English summary) **99a:05027**
Panzone, Rafael *see* **Benedek, Agnes, 99c:11010**
Radin, Charles (*with* Sadun, Lorenzo) An algebraic invariant for substitution tiling systems. (English summary) **99j:52027**
Richard, Christoph (*with* Höffe, M.; Hermisson, J.; Baake, Michael) Random tilings: concepts and examples. (English summary) **99g:82033**
Sadun, Lorenzo *see* **Radin, Charles, 99j:52027**
Schattschneider, Doris (*with* Dolbilin, Nikolai) One corona is enough for the Euclidean plane. (English summary) **99k:52034**
Schlottmann, Martin *see* **Baake, Michael; et al., 99f:82061**
Stephenson, Kenneth *see* **Bowers, Philip L., 99d:52016**

Vince, Andrew Self-replicating tiles and their boundary. (English summary) **99m:28024**
Żuk, Andrzej On the norms of the random walks on planar graphs. (English and French summaries) **99g:60127**

52C22 Tilings in n dimensions [see also 05B45, 51M20]

Baake, Michael (*with* Moody, Robert V.) Similarity submodules and semigroups. (English summary) **99h:52024**
Balke, Ludwig Classification of disordered tilings. (English summary) **99i:52025**
Bulienkov, N. A. Three possible branches of determinate modular generalization of crystallography. (English summary) **99i:52026**
Chen, Liang[5] (*with* Moody, Robert V.; Patera, Jiří) Non-crystallographic root systems. (English summary) **99h:52025**
Conway, John H. (*with* Radin, Charles) Quaquaversal tilings and rotations. (English summary) **99c:52031**
Conze, J.-P. (*with* Hervé, L.; Raugi, Albert) Pavages auto-affines, opérateurs de transfert et critères de réseau dans $\mathbf{R}^d$. (English and French summaries) [Self-affine tilings, transfer operators and criteria for lattices in $\mathbf{R}^d$] **99a:52034**
Cotfas, Nicolae On the affine self-similarities of the three-dimensional Penrose pattern. (English summary) **99h:52026**
Crapo, Henry H. (*with* Senechal, Marjorie) Tilings by related zonotopes. (English summary) **99b:52053**
Danzer, Ludwig Upper bounds for the lengths of bridges based on Delone sets. (English summary) **99h:52027**
Dolbilin, Nikolai (*with* Schattschneider, Doris) The local theorem for tilings. (English summary) **99d:52020**
— (*with* Dress, Andreas W. M.; Huson, Daniel H.) Two finiteness theorems for periodic tilings of d-dimensional Euclidean space. (English summary) **99f:52027**
— (*with* Lagarias, Jeffrey C.; Senechal, Marjorie) Multiregular point systems. (English summary) **99i:52027**
— *see also* **Schattschneider, Doris**, **99k:52034**
Dress, Andreas W. M. *see* **Dolbilin, Nikolai; et al.**, **99f:52027**
Erdahl, R. M. Space filling zonotopes and Voronoi's conjecture on parallelohedra. **99h:52028**
Floater, Michael S. (*with* Gotsman, Craig) How to morph tilings injectively. (English summary) **99k:52032**
Gähler, F. (*with* Klitzing, R.) The diffraction pattern of self-similar tilings. (English summary) **99b:52054**
Goodman-Strauss, Chaim Matching rules and substitution tilings. (English summary) **99m:52027**
Gotsman, Craig *see* **Floater, Michael S.**, **99k:52032**
Gravier, Sylvain (*with* Mollard, Michel; Payan, Charles) On the non-existence of 3-dimensional tiling in the Lee metric. (English summary) **99e:52030**
Hervé, L. *see* **Conze, J.-P.; et al.**, **99a:52034**
Huson, Daniel H. *see* **Dolbilin, Nikolai; et al.**, **99f:52027**
Januszewski, Janusz Filling a cube with subsequences of boxes. **99m:52028**
Klitzing, R. *see* **Gähler, F.**, **99b:52054**
Kusner, Robert B. (*with* Sullivan, John M.) Comparing the Weaire-Phelan equal-volume foam to Kelvin's foam. **99e:52031**
Lagarias, Jeffrey C. Geometric models for quasicrystals I. Delone sets of finite type. (English summary) **99m:52029**
— *see also* **Dolbilin, Nikolai; et al.**, **99i:52027**
Luck, J. M. Polygonal billiards and aperiodic tilings. (English summary) **99c:52032**
Masáková, Zuzana (*with* Patera, Jiří; Pelantová, Edita) Inflation centres of the cut and project quasicrystals. (English summary) **99i:52028**
— (*with* Patera, Jiří; Pelantová, Edita) Self-similar Delone sets and quasicrystals. (English summary) **99k:52033**
Mollard, Michel *see* **Gravier, Sylvain; et al.**, **99e:52030**
Molnár, Emil (*with* Prok, István; Szirmai, J.) Classification of solid transitive simplex tilings in simply connected 3-spaces. II. Metric realizations of the maximal simplex tilings. **99j:52026**
Moody, Robert V. *see* **Baake, Michael**, **99h:52024** *and* **Chen, Liang[5]; et al.**, **99h:52025**
Morgan, Frank The hexagonal honeycomb conjecture. (English summary) **99m:52030**
van Ophuysen, Gerrit Non-locality and aperiodicity of d-dimensional tilings. (English summary) **99g:52039**
Patera, Jiří *see* **Chen, Liang[5]; et al.**, **99h:52025**; **Masáková, Zuzana; et al.**, **99i:52028** *and* **99k:52033**
Payan, Charles *see* **Gravier, Sylvain; et al.**, **99e:52030**
Pelantová, Edita *see* **Masáková, Zuzana; et al.**, **99i:52028** *and* **99k:52033**
Phelan, R. Generalisations of the Kelvin problem and other minimal problems. **99d:52024**
— *see also* **Weaire, D.**, **99d:52022** *and* **99d:52023**
Prok, István Classification of dodecahedral space forms. **99i:52029**
— *see also* **Molnár, Emil; et al.**, **99j:52026**
Radin, Charles (*with* Sadun, Lorenzo) An algebraic invariant for substitution tiling systems. (English summary) **99j:52027**
— *see also* **Conway, John H.**, **99c:52031**
Raugi, Albert *see* **Conze, J.-P.; et al.**, **99a:52034**
Sadun, Lorenzo *see* **Radin, Charles**, **99j:52027**
Schattschneider, Doris (*with* Dolbilin, Nikolai) One corona is enough for the Euclidean plane. (English summary) **99k:52034**
— *see also* **Dolbilin, Nikolai**, **99d:52020**
Schmitt, Peter Triples of prototiles (with prescribed properties) in space (a quasiperiodic triple in space). (English summary) **99j:52028**
Senechal, Marjorie *see* **Crapo, Henry H.**, **99b:52053** *and* **Dolbilin, Nikolai; et al.**, **99i:52027**
Solomyak, Boris Nonperiodicity implies unique composition for self-similar translationally finite tilings. (English summary) **99f:52028**
Steinhardt, Paul J. Penrose tilings and quasicrystals revisited. (English summary) **99d:52021**
Sullivan, John M. *see* **Kusner, Robert B.**, **99e:52031**
Szirmai, J. *see* **Molnár, Emil; et al.**, **99j:52026**
Tarasov, A. S. On the complexity of convex stereohedra. (Russian) **99c:52033**
Weaire, D. (*with* Phelan, R.) A counter-example to Kelvin's conjecture on minimal surfaces. (English summary) **99d:52022**
— (*with* Phelan, R.) The structure of monodisperse foam. (English summary) **99d:52023**

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Bernuau, Guillaume Wavelets bases adapted to a self-similar quasicrystal. (English summary) **99c:42056**
Destainville, N. Entropy and boundary conditions in random rhombus tilings. (English summary) **99c:82071**
Jeulin, D. Dead leaves models: from space tessellation to random functions. (English summary) **99m:60022**
Masáková, Zuzana (*with* Patera, Jiří; Pelantová, Edita) Minimal distances in quasicrystals. (English summary) **99i:82038**
Patera, Jiří *see* **Masáková, Zuzana; et al.**, **99i:82038** *and* **Quasicrystals and discrete geometry**, **99d:52001**
Pelantová, Edita *see* **Masáková, Zuzana; et al.**, **99i:82038**
Praggastis, Brenda Numeration systems and Markov partitions from self-similar tilings. (English summary) **99m:11009**
Radin, Charles (*with* Sadun, Lorenzo) Subgroups of SO(3) associated with tilings. (English summary) **99c:20064**
Sadun, Lorenzo *see* **Radin, Charles**, **99c:20064**
Shephard, G. C. Some properties of coronas. (English summary) **99c:52030**
— Correction: "Some properties of coronas" [Results Math. **33** (1998), no. 3-4, 356–363; MR 99c:52030].
Veerman, J. J. P. Two-dimensional generalizations of Haar bases. **99b:52052**
— Hausdorff dimension of boundaries of self-affine tiles in $\mathbf{R}^N$. (English summary) **99k:28009**
Yukita, Shûichi The Moore-Myhill pseudo-tiling for the Heisenberg tessellation automata. (English summary) **99m:68137**

Items listed otherwise than by author

Quasicrystals and discrete geometry ★ Quasicrystals and discrete geometry. **99d:52001**
Toronto, ON ★ Quasicrystals and discrete geometry. **99d:52001**

52C25 Rigidity and flexibility of structures [see also 70B15]

Aleksandrov, V. A. Sufficient conditions for the extendibility of an n-th order flex of polyhedra. (English summary) **99k:52035**
Crapo, Henry H. Projective configurations: their invariants and homology. (English summary) **99h:52029**
Dolbilin, Nikolai Rigidity of convex polyhedrons. **99h:52030**
Maehara, Hiroshi A minimal rigid graph in the plane that is not constructible by ruler and compass. (English summary) **99e:52034**
Sabitov, I. Kh. A proof of the "bellows" conjecture for polyhedra of low topological genus. (Russian) **99k:52036**
Zvonkine, Dimitri Configuration spaces of hinge constructions. (English summary) **99c:52034**

Items with secondary classifications in 52C25

Bezdek, András (*with* Bezdek, Károly; Connelly, Robert) Finite and uniform stability of sphere packings. (English summary) **99c:52027**
Bezdek, Károly *see* **Bezdek, András; et al.**, **99c:52027**
Bridgeman, Martin Bounds on volume increase under Dehn drilling operations. **99f:57019**
Connelly, Robert *see* **Bezdek, András; et al.**, **99c:52027**
Lerbet, Jean Analytic geometry and singularities of mechanisms. (English summary) **99g:70010**
Maehara, Hiroshi Vector fields and quadratic surfaces. (English summary) **99k:57057**
Mentrasti, L. Paradoxes in rigid-body kinematics of structures. (English summary) **99j:70006**
Servatius, Brigitte (*with* Whiteley, Walter) Constraining plane configurations in computer-aided design: combinatorics of directions and lengths. (English summary) **99m:68218**
Whiteley, Walter An analogy in geometric homology: rigidity and cofactors on geometric graphs. (English summary) **99h:05024**
— *see also* **Servatius, Brigitte**, **99m:68218**

52C99 None of the above, but in this section

Items with secondary classifications in 52C99

Akutsu, Tatsuya (*with* Tamaki, Hisao; Tokuyama, Takeshi) Distribution of distances and triangles in a point set and algorithms for computing the largest common point sets. (English summary) **99k:68190**
Alon, Noga Piercing d-intervals. **99c:05192**
Dorkenoo, Marius (*with* Eglin-Leclerc, Marie-Christine; Rémila, Eric) Construction of non-intersecting colored flows through a planar cellular figure. (English summary) **99f:05108**
Eglin-Leclerc, Marie-Christine *see* **Dorkenoo, Marius; et al.**, **99f:05108**
Herscovici, David S. A geometric proof of the gap theorem. (English summary) **99h:05033**
Lamb, Jeroen S. W. On the canonical projection method for one-dimensional quasicrystals and invertible substitution rules. (English summary) **99d:82075**
O'Rourke, Joseph Open problems in the combinatorics of visibility and illumination. (English summary) **99g:52025**
Rémila, Eric *see* **Dorkenoo, Marius; et al.**, **99f:05108**
Sharir, Micha Arrangements of surfaces in higher dimensions. (English summary) **99g:52026**
Tamaki, Hisao *see* **Akutsu, Tatsuya; et al.**, **99k:68190**
Tokuyama, Takeshi *see* **Akutsu, Tatsuya; et al.**, **99k:68190**
Yakupov, M. Sh. Canonical description and inversion of operators in a discrete space. I. (Russian) **99f:58224**

53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

Borisenko, A. A. ★ Диференціальна геометрія і топологія. (Ukrainian. Ukrainian summary) [Differential geometry and topology] **99b:53001**
Goldberg, Samuel I. ★ Curvature and homology. (English summary) **99c:53001**
Lang, Serge ★ Fundamentals of differential geometry. (English summary) **99m:53001**

Items with secondary classifications in 53–01

Bloch, Ethan D. ★ A first course in geometric topology and differential geometry. **99c:57001**
Naber, Gregory L. ★ Topology, geometry, and gauge fields. (English summary) **99b:58001**
Osipov, V. F. ★ Структура пространства-времени: векторная алгебра и анализ. Часть 1. (Russian. Russian summary) [Space-time structure: vector algebra and analysis. Part 1] **99e:53015**

53–02 Research exposition (monographs, survey articles)

Berger, Marcel Riemannian geometry during the second half of the twentieth century. **99h:53001**
Kulkarni, Ravi Problems on geometrical methods for physics. (*see* **99a:83002**)
Mukunda, N. Geometrical methods for physics. (*see* **99a:83002**)

Items with secondary classifications in 53–02

Aldrovandi, R. Forms and fields: applications of differential forms to field theory. **99j:58001**
Cao, Jianguo Topics in geometric analysis via Gromov's methods. (English and Chinese summaries) **99d:53038**
Furuhata, Hitoshi (*with* Matsuzoe, Hiroshi; Urakawa, Hajime) Open problems in affine differential geometry and related topics. (English summary)
Gromov, Mikhael Systoles and intersystolic inequalities. (English and French summaries) **99a:53051**
Jost, Jürgen ★ Riemannian geometry and geometric analysis. (English summary) **99g:53025**
Matsuzoe, Hiroshi *see* **Furuhata, Hitoshi; et al.**
Urakawa, Hajime *see* **Furuhata, Hitoshi; et al.**

53–03 Historical (must also be assigned at least one classification number from Section 01)

Currás Bosch, Carlos Parallel transport: from Levi-Civita to today. (Catalan)
Shirokov, Aleksandr Petrovich P. A. Shirokov's work on the geometry of symmetric spaces. **99f:53001**
(Shirokov, P. A.) *see* **Shirokov, Aleksandr Petrovich**, **99f:53001**

Items with secondary classifications in 53–03

Berger, Marcel Riemannian geometry during the second half of the twentieth century. **99h:53001**
(Cartan, Elie) *see* **Libermann, Paulette**, **99a:01020**
Dell'Aglio, Luca The role of applications in the works of Levi-Civita. (Italian. English summary) **99a:01016**
— The concept of tensor in Ricci-Curbastro. (Italian) **99g:01020**
(Kowalski-Glikman, Jerzy) *see* **Maurin, Krzysztof**, **99g:00007**
(Levi-Civita, Tullio) *see* **Dell'Aglio, Luca**, **99a:01016**
Libermann, Paulette Elie Cartan (1869–1951). (French) **99a:01020**
Maurin, Krzysztof ★ The Riemann legacy. (English summary) **99g:00007**
Ozsváth, István (*with* Schücking, Engelbert L.) The world viewed from outside. (English summary) **99a:53066**
(Ricci-Curbastro, Gregorio) *see* **Dell'Aglio, Luca**, **99g:01020**
Schücking, Engelbert L. *see* **Ozsváth, István**, **99a:53066**
Thomson, William, Lord Kelvin On the division of space with minimum partitional area. **99d:53012**

53–04 Explicit machine computation and programs (not the theory of computation or programming)

Battke, Henrik (*with* Stalling, Detlev; Hege, Hans-Christian) Fast line integral convolution for arbitrary surfaces in 3D. (English summary) (*see* **99g:68212**)
Brakke, Ken A. (*with* Sullivan, John M.) Using symmetry features of the surface evolver to study foams. (English summary) (*see* **99g:68212**)
— *see also* **Francis, George K.; et al.**, (**99g:68212**)
Chappell, Glenn *see* **Francis, George K.; et al.**, (**99g:68212**)
Cheng, Min De *see* **Li, Hongbo**, **99m:53002**
Francis, George K. (*with* Sullivan, John M.; Kusner, Robert B.; Brakke, Ken A.; Hartman, Chris; Chappell, Glenn) The minimax sphere eversion. (English summary) (*see* **99g:68212**)
Hartman, Chris *see* **Francis, George K.; et al.**, (**99g:68212**)
Hege, Hans-Christian *see* **Battke, Henrik; et al.**, (**99g:68212**)
Kohler, Markus (*with* Müller, Heinrich Augustinus) Efficient calculation of subdivision surfaces for visualization. (English summary) (*see* **99g:68212**)
Kusner, Robert B. *see* **Francis, George K.; et al.**, (**99g:68212**)
Li, Hongbo (*with* Cheng, Min De) Ordering in automated theorem proving of differential geometry. (English summary) **99m:53002**
Müller, Heinrich Augustinus *see* **Kohler, Markus**, (**99g:68212**)
Ruhl, Matthias *see* **Saupe, Dietmar**, (**99g:68212**)
Saupe, Dietmar (*with* Ruhl, Matthias) Animation of algebraic surfaces. (English summary) (*see* **99g:68212**)
Stalling, Detlev *see* **Battke, Henrik; et al.**, (**99g:68212**)
Sullivan, John M. *see* **Francis, George K.; et al.**, (**99g:68212**) *and* **Brakke, Ken A.**, (**99g:68212**)

Items with secondary classifications in 53–04

Christensen, Steven M. Large scale tensor analysis by computer. (English summary) **99i:53007**
Francis, George K. (*with* Sullivan, John M.; Hartman, Chris) Computing sphere eversions. (English summary) (*see* **99k:65005**)
Große-Brauckmann, Karsten (*with* Kusner, Robert B.; Sullivan, John M.) Constant mean curvature surfaces with cylindrical ends. (English summary) (*see* **99k:65005**)
Hartman, Chris *see* **Francis, George K.; et al.**, (**99k:65005**)
(Hege, Hans-Christian) *see* **Visualization and mathematics**, **99g:68212**
Kusner, Robert B. *see* **Große-Brauckmann, Karsten; et al.**, (**99k:65005**)
Malladi, Ravikanth (*with* Sethian, James A.) Level set methods for curvature flow, image enchancement, and shape recovery in medical images. (English summary) (*see* **99g:68212**)
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— ★ Séminaire de Théorie Spectrale et Géométrie. Vol. 16. Année 1997–1998. (French) [Seminar on Spectral Theory and Geometry. Vol. 16. Year 1997–1998] **99h:53003**
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53A04 Curves in Euclidean space

Audoly, Basile Courbes rigidifiant les surfaces. (English and French summaries) [Rigidifying curves on surfaces] **99m:53003**
Calini, Annalisa (*with* Ivey, Thomas) Bäcklund transformations and knots of constant torsion. (English summary) **99m:53004**
de Carvalho, Francisco J. Craveiro (*with* Robertson, S. A.) A remark on cylindrical curves and induced curves in $\mathbf{RP}^2$. **99m:53005**
Chen, Yu[8] (*with* Kossowski, Marek) Global differential geometry of 1-resolvable C^∞ curves in the plane. (English summary) **99k:53001**
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Giblin, Peter J. (*with* Sapiro, Guillermo) Affine-invariant distances, envelopes and symmetry sets. (English summary) **99e:53002**
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Hannay, J. H. Cyclic rotations, contractibility and Gauss-Bonnet. (English summary) **99b:53004**
Hoffman, Michael E. The bull and the silo: an application of curvature. **99a:53002**
Ishimura, Naoyuki Shape of spirals. (English summary) **99c:53003**
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Koch, Richard (*with* Engelhardt, Christoph) Closed space curves of constant curvature consisting of arcs of circular helices. (English summary) **99m:53006**
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Lindström, Bernt New light on the curvature and length of winged curves. (Swedish. English summary) **99b:53006**
Mağden, Abdullah (*with* Köse, Ömer) On the curves of constant breadth in E^4 space. (English and Turkish summaries) **99b:53007**
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Perović, Aleksandar Vertices of bounding curves with minimal self-intersections. (English summary) **99g:53004**
Polthier, Konrad (*with* Schmies, Markus) Straightest geodesics on polyhedral surfaces. (English summary) (*see* **99k:65005**)
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Sapiro, Guillermo *see* **Giblin, Peter J., 99e:53002**
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Dragoş, Petru Applications of the non-standard analysis. (Romanian summary) **99c:03107**
Ferrand, Emmanuel On the Bennequin invariant and the geometry of wave fronts. (English summary) **99c:57061**
Fiorot, Jean-Charles (*with* Cattiaux-Huillard, I.) Uniform point distribution on a circle. (English summary) **99j:65260**
Giga, Mi-Ho (*with* Giga, Yoshikazu) Motion driven by nonlocal curvature in the plane. (*see* **99a:35004**)
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Huisken, Gerhard A distance comparison principle for evolving curves. (English summary) **99m:58052**
Kazdan, Jerry L. Solving equations, an elegant legacy. **99e:00002**
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Kobayashi, Kazushiro Curvature dimension of trivalent graphs. (English summary) **99m:05051**
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Marris, A. W. On the completeness of circular helical motions. **99j:76026a**
— Corrigenda: "On the completeness of circular helical motions". **99j:76026b**
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Bruce, J. W. (*with* Giblin, Peter J.; Tari, F.) Families of surfaces: height functions and projections to planes. **99j:53001**
— (*with* Nogueira, Antonio Carlos) Surfaces in $\mathbf{R}^4$ and duality. **99j:53002**
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Fujioka, Atsushi (*with* Inoguchi, Jun-ichi) Bonnet surfaces with constant curvature. (English summary) **99e:53004**
Giblin, Peter J. Apparent contours: an outline. (English summary) **99m:53010**
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Hermann, Thomas[1] On the smoothness of offset surfaces. (English summary) **99f:53002**
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Lakshmanan, M. (*with* Myrzakulov, R.; Vijayalakshmi, S.; Danlybaeva, A. K.) Motion of curves and surfaces and nonlinear evolution equations in (2 + 1) dimensions. (English summary) **99h:53004**
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Opozda, Barbara How to recognize cylinders, cones and tangential developables. (English summary) **99i:53002**
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Velimirović, Ljubica S. On the second order infinitesimal bendings of a class of toroids. (English summary) **99c:53006**
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Zalgaller, V. A. Some bendings of a long cylinder. (Russian. English and Russian summaries) **99g:53007**

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— (*with* Novaga, Matteo; Paolini, Maurizio) An example of three-dimensional fattening for linked space curves evolving by curvature. (English summary) **99j:58048**
Brakke, Ken A. (*with* Sullivan, John M.) Using symmetry features of the surface evolver to study foams. (English summary) (*see* **99g:68212**)
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Cipolla, Roberto The visual motion of curves and surfaces. (English summary) **99d:53003**
Dirnböck, Hans (*with* Stachel, Hellmuth) The development of the oloid. (English summary) **99d:51023**
Dragoş, Petru A non-standard approach to the Euclidian study of plane curves. (English summary) **99k:03050**
Dynnikov, I. A. Surfaces in 3-torus: geometry of plane sections. **99k:57075**
Engman, Martin Sharp bounds for eigenvalues and multiplicities on surfaces of revolution. (English summary) **99m:58193**
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Fu, Joseph H. G. Bi-Lipschitz rough normal coordinates for surfaces with an L^1 curvature bound. **99k:49090**
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Hertrich-Jeromin, Udo (*with* Pedit, Franz) Remarks on the Darboux transform of isothermic surfaces. (English summary) **99k:53006**
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— Prescribing mean curvature: existence and uniqueness problems. (English summary) **99c:53066**
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Marris, A. W. On the completeness of circular helical motions. **99j:76026a**
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Schuster, Wolfgang Steinersche Torusflächen. [Steiner torus surfaces] **99f:51037**
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Stachel, Hellmuth *see* **Dirnböck, Hans, 99d:51023**
Stalling, Detlev *see* **Battke, Henrik; et al., (99g:68212)**
Stephanidis, N. K. Sechseckgewebe und die Abelsche Differentialgleichung erster Art. (Greek summary) [Hexagonal webs and the Abel differential equation of the first kind] **99h:53017**
Sullivan, John M. *see* **Francis, George K.; et al., (99g:68212)** *and* **Brakke, Ken A., (99g:68212)**
Tari, F. *see* **Bruce, J. W.; et al., 99h:58018**
Toponogov, V. A. A uniqueness theorem for convex surfaces without umbilic points in which the principal curvatures are connected by a certain relation. (Russian. Russian summary) **99h:53089**

53A07 Higher-dimension and -codimension surfaces in Euclidean n-space

Akivis, Maks A. (*with* Goldberg, Vladislav V.) The Darboux mapping of canal hypersurfaces. (English summary) **99g:53008**
Aminov, Yu. A. (*with* Manzhos, N. V.) Closed surfaces in E^4 with a nonvanishing Whitney invariant. (Russian. English, Russian and Ukrainian summaries) **99k:53005**
Chen, Fu Liang Isometric surfaces in E^5. (Chinese. English and Chinese summaries) **99m:53012**

Cheshkova, M. A. On the geometry of the central projection of an n-surface in the Euclidean space E^{n+m}. (Russian) **99m:53013**
Defever, Filip Hypersurfaces of $\mathbf{E}^4$ with harmonic mean curvature vector. (English summary) **99j:53004**
Goldberg, Vladislav V. *see* **Akivis, Maks A., 99g:53008**
Gor'kavyĭ, Vasiliĭ A reduction theorem in the problem of reconstructing submanifolds in a Euclidean space from a given Grassmannian image. (Russian. English, Russian and Ukrainian summaries) **99d:53008**
Guadalupe, Irwen *see* **Gutierrez, Carlos; et al., 99b:53011**
Guíñez, Víctor *see* **Gutierrez, Carlos; et al., 99b:53011**
Gutierrez, Carlos (*with* Guadalupe, Irwen; Tribuzy, Renato; Guíñez, Víctor) Lines of curvature on surfaces immersed in $\mathbf{R}^4$. (English summary) **99b:53011**
Jang, Changrim (*with* Park, Keun) Surfaces of 1-type Gauss map with flat normal connection. (English summary) **99m:53014**
Kuruoğlu, Nuri (*with* Sarioğlugil, Ayhan) On the characteristic properties of the hyperpedal surfaces in the $(n+1)$-dimensional Euclidean space E^{n+1}. (English summary) **99g:53009**
Li, Yan Yan Group invariant convex hypersurfaces with prescribed Gauss-Kronecker curvature. **99a:53006**
Manzhos, N. V. *see* **Aminov, Yu. A., 99k:53005**
Park, Keun *see* **Jang, Changrim, 99m:53014**
Rivière, Alain Nervure d'un ouvert d'un espace euclidien. (English summary) [The rib of an open set in Euclidean space] **99g:53010**
Roseman, Dennis What should a surface in 4-space look like? (English summary) (*see* **99g:68212**)
Sağel, M. Kemal Some properties preserved under the mercator projection. (English summary)
Sarioğlugil, Ayhan *see* **Kuruoğlu, Nuri, 99g:53009**
Tribuzy, Renato *see* **Gutierrez, Carlos; et al., 99b:53011**

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Barbosa, J. Lucas M. (*with* Sa Earp, Ricardo) Prescribed mean curvature hypersurfaces in $H^{n+1}(-1)$ with convex planar boundary. I. (English summary) **99d:53064**
Carter, Sheila (*with* Dursun, Uğur) Partial tubes and Chen submanifolds. **99m:53099**
Chen, Bang-Yen (*with* Li, Shi-jie) Spherical hypersurfaces with 2-type Gauss map. (English summary) **99d:53054**
Cheshkova, M. A. On a property of orthogonal surfaces. (Russian) **99b:53022**
Dursun, Uğur *see* **Carter, Sheila, 99m:53099**
Han, Chong-Kyu (*with* Yoo, Jae-Nyun) A note on É. Cartan's method of equivalence and local invariants for isometric embeddings of Riemannian manifolds. (English summary) **99d:53014**
Kassabov, Ognian T. A characterization of the extrinsic spheres in a Riemannian manifold. (Italian summary) **99c:53057**
Li, Shi-jie *see* **Chen, Bang-Yen, 99d:53054**
Martinez-Maure, Yves Sur les hérissons projectifs (enveloppes paramétrées par leur application de Gauss). (English and French summaries) [On projective hedgehogs (envelopes parametrized by their Gauss map)] **99a:53071**
Mercuri, Francesco Hypersurfaces of revolution: an intrinsic approach. **99e:53092**
Nicolescu, Liviu (*with* Pripoae, Gabriel Teodor) Estimates for the mean functions associated to a symmetric $(0,2)$-tensor on a Riemannian manifold. (English summary) **99k:53071**
Pripoae, Gabriel Teodor *see* **Nicolescu, Liviu, 99k:53071**
Ricci, Fulvio L^p-L^q boundedness for convolution operators defined by singular measures in $\mathbf{R}^n$. (Italian) **99c:42023**
Sa Earp, Ricardo *see* **Barbosa, J. Lucas M., 99d:53064**
Shen, Yi-Bing (*with* Zhu, Xiao Hua) On stable complete minimal hypersurfaces in $\mathbf{R}^{n+1}$. (English summary) **99c:58040**
Yoo, Jae-Nyun *see* **Han, Chong-Kyu, 99d:53014**
Zhu, Xiao Hua *see* **Shen, Yi-Bing, 99c:58040**

53A10 Minimal surfaces, surfaces with prescribed mean curvature [see also 49Q05, 49Q10, 53C42]

Aiyama, Reiko (*with* Akutagawa, Kazuo) Representation formulas for surfaces of constant mean curvature in 3-dimensional spaces of constant curvature. (Japanese) (*see* **99a:58003**)
— (*with* Akutagawa, Kazuo) Kenmotsu-Bryant type representation formula for constant mean curvature spacelike surfaces in $\mathbf{H}^3_1(-c^2)$. (English summary) **99m:53015**
Akutagawa, Kazuo *see* **Aiyama, Reiko, 99m:53015** *and* (**99a:58003**)
Alías, Luis J. (*with* López, Rafael; Palmer, Bennett) Stable constant mean curvature surfaces with circular boundary. (English summary) **99f:53006**
Baikoussis, Christos (*with* Koufogiorgos, Themis) Helicoidal surfaces with prescribed mean or Gaussian curvature. **99i:53003**
Cao, Huai-Dong (*with* Shen, Ying; Zhu, Shunhui) A Bernstein theorem for complete spacelike constant mean curvature hypersurfaces in Minkowski space. (English summary) **99h:53007**
Chen, Wei Huan (*with* Li, Hai Zhong) Weingarten surfaces and [the] sine-Gordon equation. (English summary) **99j:53005**
— (*with* Su, Nong) The self-conjugate maximal surfaces in L^3. (English summary) **99g:53011**
Dierkes, Ulrich Minimal surfaces in singular spaces. **99j:53006**
Dillen, Franki (*with* Van de Woestyne, I.; Verstraelen, Leopold; Walrave, J.) The surface of Scherk in $\mathbf{E}^3$: a special case in the class of minimal surfaces defined as the sum of two curves. **99j:53007**
Dorfmeister, J. (*with* Haak, G.) On constant mean curvature surfaces with periodic metric. (English summary) **99f:53007**
Fang, Yi On minimal annuli with a straight line boundary. (English summary) **99i:53004**
Finn, Robert S. (*with* Lu, Jianan) Some remarkable properties of H-graphs. (English and Georgian summaries) **99j:53008**
— (*with* Lu, Jianan) Regularity properties of H-graphs. (English summary) **99e:53007**
Fischer, Werner *see* **Koch, Elke, 99m:53016**
Große-Brauckmann, Karsten (*with* Polthier, Konrad) Constant mean curvature surfaces derived from Delaunay's and Wente's examples. (English summary) (*see* **99g:68212**)
— (*with* Kusner, Robert B.; Sullivan, John M.) Constant mean curvature surfaces with cylindrical ends. (English summary) (*see* **99k:65005**)
Haak, G. *see* **Dorfmeister, J., 99f:53007**
Hall, R. R. The Gaussian curvature of minimal surfaces and Heinz' constant. **99j:53009**
Hern, Thomas (*with* Long, Cliff; Long, Andrew E.) Looking at order of integration and a minimal surface. **99a:53007**
Hertrich-Jeromin, Udo (*with* Pedit, Franz) Remarks on the Darboux transform of isothermic surfaces. (English summary) **99k:53006**
Hoffman, David A. (*with* Rossman, Wayne) Limit surfaces of Riemann examples. (English summary) **99h:53008**
Hoy, E. On Bernstein's theorem for quasiminimal surfaces. II. (English summary) **99f:53008**
Hutchings, Michael The structure of area-minimizing double bubbles. (English summary) **99j:53010**
Jiao, Xiao Xiang (*with* Peng, Jia Gui) Conformal minimal surfaces of constant Gaussian curvature in U(3). (Chinese. Chinese summary)
Kamberov, Georgi I. (*with* Pedit, Franz; Pinkall, Ulrich) Bonnet pairs and isothermic surfaces. **99h:53009**
Kapouleas, Nicolaos Complete embedded minimal surfaces of finite total curvature. (English summary) **99a:53008**
Kato, Shin (*with* Umehara, Masaaki; Yamada, Kōtarō) General existence of minimal surfaces with prescribed flux. II. **99g:53012**
Klyachin, V. A. New examples of tubular minimal surfaces of arbitrary codimension. (Russian) **99e:53008**
Koch, Elke (*with* Fischer, Werner) Minimal surfaces with self-intersections along straight lines. I. Derivation and properties. (English summary) **99m:53016**
Koch, Richard Kennzeichnungen von Minimalschraubflächen mittels Vertikalisophoten und Horizontalschattengrenzen. (English summary) [Characterization of minimal helicoidal surfaces via vertical isophotes and horizontal shadow boundaries] **99g:53013**
Koiso, Miyuki Applications of the maximum principle to surfaces with constant mean curvature. (Japanese) (*see* **99a:58003**)
— The stability and the vision number of surfaces with constant mean curvature. (English and Japanese summaries) **99i:53005**
Koufogiorgos, Themis *see* **Baikoussis, Christos, 99i:53003**
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Li, Hai Zhong *see* **Chen, Wei Huan, 99j:53005**
Li, Zhen Qi *see* **Yu, Zuhuan, 99m:53021**
Long, Andrew E. *see* **Hern, Thomas; et al., 99a:53007**
Long, Cliff *see* **Hern, Thomas; et al., 99a:53007**
López, Rafael Surfaces of constant mean curvature with boundary in a sphere. **99b:53012**
— *see also* **Alías, Luis J.; et al., 99f:53006**
Lu, Jianan *see* **Finn, Robert S., 99e:53007** *and* **99j:53008**
Meeks, William H., III (*with* Pérez, Joaquín; Ros, Antonio) Uniqueness of the Riemann minimal examples. (English summary) **99b:53013**
Moriya, Katsuhiro On a variety of algebraic minimal surfaces in Euclidean 4-space. (English summary) **99h:53010**
Muto, Hideo The dressing up procedure and Delaunay surfaces. (Japanese) (*see* **99a:58003**)
Nelli, Barbara An example of an immersed complete genus one minimal surface in $\mathbf{R}^3$ with two convex ends. (English summary) **99d:53009**
Oberknapp, Bernd (*with* Polthier, Konrad) An algorithm for discrete constant mean curvature surfaces. (English summary) (*see* **99g:68212**)
Palmer, Bennett *see* **Alías, Luis J.; et al., 99f:53006**
Pedit, Franz *see* **Kamberov, Georgi I.; et al., 99h:53009** *and* **Hertrich-Jeromin, Udo, 99k:53006**
Peng, Jia Gui *see* **Jiao, Xiao Xiang**
Pérez, Joaquín *see* **Meeks, William H., III; et al., 99b:53013**
Pinkall, Ulrich *see* **Kamberov, Georgi I.; et al., 99h:53009**
Pirola, Gian Pietro The infinitesimal variation of the spin abelian differentials and periodic minimal surfaces. (English summary) **99h:53011**
— Algebraic curves and non-rigid minimal surfaces in the Euclidean space. (English summary) **99e:53009**
Polombo, Albert Sur les hypersurfaces à courbure moyenne constante de l'espace hyperbolique. [On hypersurfaces with constant mean curvature in hyperbolic space] **99d:53010**
Polthier, Konrad *see* **Oberknapp, Bernd, (99g:68212)** *and* **Große-Brauckmann, Karsten, (99g:68212)**
Rhode, Anne Katharina ★ Rotationssymmetrische Flächen konstanter mittlerer Krümmung in zwei konzentrischen Kreisen. (German) [Rotation-symmetric surfaces of constant mean curvature in two concentric circles] **99m:53017**
Rodríguez, Lucio (*with* Rosenberg, Harold) Minimal surfaces in $\mathbf{R}^3$ with one end and bounded curvature. (English summary) **99e:53010**
Ros, Antonio *see* **Meeks, William H., III; et al., 99b:53013**
Rosenberg, Harold (*with* Toubiana, Eric) Simply connected minimal surfaces in $\mathbf{R}^3$ transverse to horizontal planes. (English summary) **99e:53011**
— *see also* **Rodríguez, Lucio, 99e:53010**
Rossman, Wayne (*with* Umehara, Masaaki; Yamada, Kōtarō) Irreducible constant mean curvature 1 surfaces in hyperbolic space with positive genus. (English summary) **99a:53025**
— Minimal surfaces with planar boundary curves. **99c:53007**
— (*with* Umehara, Masaaki; Yamada, Kōtarō) Flux for mean curvature 1 surfaces in hyperbolic 3-space, and applications. (English summary) **99j:53011**
— *see also* **Hoffman, David A., 99h:53008**
Semmler, Beate Some structure theorems for complete H-surfaces in hyperbolic 3-space $\mathbf{H}^3$. **99a:53009**
Shen, Ying *see* **Cao, Huai-Dong; et al., 99h:53007**
Simon, Leon The minimal surface equation. **99b:53014**
Su, Nong *see* **Chen, Wei Huan, 99g:53011**

Sullivan, John M. *see* **Große-Brauckmann, Karsten; et al., (99k:65005)**
Taimanov, Iskander A. The global Weierstrass representation and its spectrum. (Russian) **99d:53011**
Thomson, William, Lord Kelvin On the division of space with minimum partitional area. **99d:53012**
Toubiana, Eric *see* **Rosenberg, Harold, 99e:53011**
Umehara, Masaaki (*with* Yamada, Kōtarō) A duality on CMC-1 surfaces in hyperbolic space, and a hyperbolic analogue of the Osserman inequality. (English summary) **99e:53012**
— *see also* **Rossman, Wayne; et al., 99a:53025**; **Kato, Shin; et al., 99g:53012** *and* **Rossman, Wayne; et al., 99j:53011**
Van de Woestyne, I. *see* **Dillen, Franki; et al., 99j:53007**
Verstraelen, Leopold *see* **Dillen, Franki; et al., 99j:53007**
Walrave, J. *see* **Dillen, Franki; et al., 99j:53007**
Wang, Hong[5] A remark on a family of embedded minimal surfaces in 3-dimensional Euclidean space. (Chinese. Chinese summary) **99m:53018**
Weber, Matthias[2] On the Horgan minimal non-surface. **99m:53019**
— (*with* Wolf, Michael[1]) Minimal surfaces of least total curvature and moduli spaces of plane polygonal arcs. **99m:53020**
Wolf, Michael[1] *see* **Weber, Matthias[2], 99m:53020**
Yamada, Kōtarō *see* **Rossman, Wayne; et al., 99a:53025**; **Umehara, Masaaki, 99e:53012**; **Kato, Shin; et al., 99g:53012** *and* **Rossman, Wayne; et al., 99j:53011**
Yu, Zuhuan (*with* Li, Zhen Qi) CMC surfaces in the hyperbolic 3-space. (English summary) **99m:53021**
Zhu, Shunhui *see* **Cao, Huai-Dong; et al., 99h:53007**

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Alías, Luis J. (*with* Pastor, José A.) Constant mean curvature spacelike hypersurfaces with spherical boundary in the Lorentz-Minkowski space. (English summary) **99h:53081**
Aliev, A. N. (*with* Kalayci, J.; Nutku, Y.) General minimal surface solution for gravitational instantons. (English summary) **99d:83041**
Almgren, Fred (*with* Taylor, Jean E.) Soap bubble clusters. **99e:49052**
Aste, Tomaso *see* **Rivier, Nicolas, 99a:49047**
Borisovich, A. Yu. Bifurcation of a capillary minimal surface in a weak gravitational field. (Russian. Russian summary) **99f:58040**
Brito, Fabiano Gustavo Braga (*with* Sa Earp, Ricardo) On the structure of certain Weingarten surfaces with boundary a circle. (English and French summaries) **99a:53005**
Carter, Sheila (*with* Dursun, Uğur) Partial tubes and Chen submanifolds. **99m:53099**
Chen, Qing[2] Uniqueness of minimal submanifolds in Euclidean space. (English summary) **99h:53082**
Dursun, Uğur *see* **Carter, Sheila, 99m:53099**
Fierro, Francesca (*with* Goglione, Roberta; Paolini, Maurizio) Numerical simulations of mean curvature flow in the presence of a nonconvex anisotropy. (English summary) **99k:58040**
Gerhardt, Claus Closed hypersurfaces of prescribed mean curvature in locally conformally flat Riemannian manifolds. (English summary) **99f:53037**
Goglione, Roberta *see* **Fierro, Francesca; et al., 99k:58040**
Greco, Antonio On the existence of large solutions for equations of prescribed mean curvature. **99e:35050**
Gürses, Metin Sigma models and minimal surfaces. (English summary) **99j:58091**
Hélein, Frédéric Surfaces à courbure moyenne constante et inégalité de Wente. [Surfaces with constant mean curvature and Wente's inequality] **99c:58036**
Heppes, Aladár On the partition of the 2-sphere by geodesic nets. (English summary) **99j:53051**
Hertrich-Jeromin, Udo Supplement on curved flats in the space of point pairs and isothermic surfaces: a quaternionic calculus. (English summary) **99b:53017**
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. II. The edge-creeping phenomenon. (English summary) **99e:58044**
Hsieh, Chun-Chung Phragmèn-Lindelöf theorem of minimal surface equations in domains with symmetry. (English summary) **99d:35048**
Huang, Wu-Hsiung (*with* Lin, Chun-Chi) Negatively curved sets on surfaces of constant mean curvature in $\mathbf{R}^3$ are large. (English summary) **99j:58049**
Huisken, Gerhard (*with* Sinestrari, Carlo) Mean curvature flow singularities for mean convex surfaces. (English summary) **99m:58057**
Hwang, Jenn-Fang Catenoid-like solutions for the minimal surface equation. (English summary) **99d:58041**
Ishimura, Naoyuki Self-similar solutions for the Gauss curvature evolution of rotationally symmetric surfaces. **99f:58041**
Jost, Jürgen Minimal surfaces and Teichmueller theory. **99b:32029**
Judge, Christopher M. Conformally converting cusps to cones. (English summary) **99m:53026**
Kalayci, J. *see* **Aliev, A. N.; et al., 99d:83041**
Kusner, Robert B. (*with* Sullivan, John M.) Comparing the Weaire-Phelan equal-volume foam to Kelvin's foam. **99e:52031**
Liang, Fei-Tsen Absolute gradient bounds for nonparametric hypersurfaces of constant mean curvature and the structure of generalized solutions for the constant mean curvature equation. (English summary) **99k:35052**
Lin, Chun-Chi *see* **Huang, Wu-Hsiung, 99j:58049**
Masters, Joseph D. The perimeter-minimizing enclosure of two areas in S^2. (English summary) **99a:52010**
Nutku, Y. *see* **Aliev, A. N.; et al., 99d:83041**
Paolini, Maurizio *see* **Fierro, Francesca; et al., 99k:58040**
Pastor, José A. *see* **Alías, Luis J., 99h:53081**
Pérez, Joaquín (*with* Ros, Antonio) The space of complete minimal surfaces with finite total curvature as Lagrangian submanifold. (English summary) **99m:58038**
Phelan, R. Generalisations of the Kelvin problem and other minimal problems. **99d:52024**
— *see also* **Weaire, D., 99d:52022**
Preissler, Gabriele ★ Möbius-Differentialgeometrie von Hyperflächen. (German) [Möbius differential geometry of hypersurfaces] **99c:53067**
Ritoré, Manuel Index one minimal surfaces in flat three space forms. (English summary) **99h:58041**
Rivier, Nicolas (*with* Aste, Tomaso) Organized packing. **99a:49047**
Ros, Antonio *see* **Pérez, Joaquín, 99m:58038**
Sa Earp, Ricardo *see* **Brito, Fabiano Gustavo Braga, 99a:53005**
Sauvigny, Friedrich *see* **Hildebrandt, Stefan, 99e:58044**
Sinestrari, Carlo *see* **Huisken, Gerhard, 99m:58057**
Sullivan, John M. *see* **Kusner, Robert B., 99e:52031**
Taimanov, Iskander A. Surfaces of revolution in terms of solitons. (English summary) **99f:53005**
Taylor, Jean E. *see* **Almgren, Fred, 99e:49052**
Weaire, D. (*with* Phelan, R.) A counter-example to Kelvin's conjecture on minimal surfaces. (English summary) **99d:52022**
Wienholtz, Daniel ★ Zum Ausschluß von Randverzweigungspunkten bei Minimalflächen. (German) [On the exclusion of boundary branch points of minimal surfaces] **99d:58042**

53A15 Affine differential geometry

Chakmazyan, A. V. On hyperstrips in Peterson correspondence in an affine space. (Russian) **99g:53014**
Dillen, Franki (*with* Vrancken, Luc) Hypersurfaces with parallel difference tensor. **99e:53013**
Furuhata, Hitoshi (*with* Matsuzoe, Hiroshi; Urakawa, Hajime) Open problems in affine differential geometry and related topics. (English summary)
Giblin, Peter J. (*with* Sapiro, Guillermo) Affine-invariant symmetry sets. (English summary) **99k:53007**
Izumiya, Shyuichi (*with* Sano, Takasi) Affine differential geometry of space curves and singularity theory. (English summary) **99m:53022**
— (*with* Sano, Takasi) Generic affine differential geometry of plane curves. (English summary) **99h:53012a**
— (*with* Sano, Takasi) Generic affine differential geometry of space curves. (English summary) **99f:53009**
Liao, Hua Kui Heat flow problems in centroaffine geometry. (Chinese. English and Chinese summaries) **99c:53008**
Liu, Huili L. (*with* Wang, Chang Ping[1]) Centroaffine surfaces with parallel traceless cubic form. (English summary) **99g:53015**
Magid, M. (*with* Vrancken, Luc) Affine translation surfaces. **99m:53023**
Matsuzoe, Hiroshi On realization of conformally-projectively flat statistical manifolds and the divergences. (English summary) **99j:53012**
— *see also* **Furuhata, Hitoshi; et al.**
Sano, Takasi Bifurcations of affine invariants for isotopies of generic convex plane curves. **99h:53012b**
— *see also* **Izumiya, Shyuichi, 99f:53009**; **99h:53012a** *and* **99m:53022**
Sapiro, Guillermo *see* **Giblin, Peter J., 99k:53007**
Tanabe, Koichi Affine surfaces with parallel cubic form relative to the dual connection. **99k:53008**
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Vrancken, Luc *see* **Dillen, Franki, 99e:53013** *and* **Magid, M., 99m:53023**
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Zhao, Guo Song Ovaloids with parallel Ricci curvature tensor in equiaffine spaces. (Chinese. English and Chinese summaries) **99k:53009**

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Blažić, Novica (*with* Bokan, Neda; Gilkey, Peter B.) Pontrjagin forms, Chern Simons classes, Codazzi transformations, and affine hypersurfaces. (English summary) **99m:53039**
Bokan, Neda (*with* Gilkey, Peter B.; Simon, Udo) Spectral invariants of affine hypersurfaces. (English summary) **99j:58197**
— *see also* **Blažić, Novica; et al., 99m:53039**
Dillen, Franki (*with* Vrancken, Luc) When do some geodesics of the induced and the metrical connection coincide? (English summary) **99c:53035**
Giblin, Peter J. (*with* Sapiro, Guillermo) Affine-invariant distances, envelopes and symmetry sets. (English summary) **99e:53002**
Gilkey, Peter B. *see* **Bokan, Neda; et al., 99j:58197** *and* **Blažić, Novica; et al., 99m:53039**
Liu, Huili L. (*with* Simon, Udo; Wang, Chang Ping[1]) Codazzi tensors and the topology of surfaces. (English summary) **99d:53007**
— (*with* Simon, Udo; Wang, Chang Ping[1]) Higher order Codazzi tensors on conformally flat spaces. (English summary) **99m:53067**
Malakhovskiĭ, V. S. Differential geometry of manifolds of figures. **99c:53010**
Sapiro, Guillermo *see* **Giblin, Peter J., 99e:53002**
Simon, Udo *see* **Liu, Huili L.; et al., 99d:53007**; **Bokan, Neda; et al., 99j:58197** *and* **Liu, Huili L.; et al., 99m:53067**
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Wang, Chang Ping[1] *see* **Liu, Huili L.; et al., 99d:53007** *and* **99m:53067**

53A17 Kinematics

Akyar, B. (*with* Köse, Ömer) An algebraic approach to the mathematical methods in spatial kinematics. (English summary) **99f:53010**
Baker, J. Eddie The single screw reciprocal to the general plane-symmetric six-screw linkage. (English summary) **99c:53009**
Gfrerrer, Anton (*with* Lang, Johann) Equiform bundle motions in E_3 with spherical trajectories. I, II. (English summary) **99m:53024**
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Lang, Johann *see* **Gfrerrer, Anton, 99m:53024**
Saurer, Gerhard Eine kinematische Abbildung der ebenen euklidischen Bewegungen. [A kinematic mapping of plane Euclidean motions] **99f:53011**
Tölke, Jürgen Ein Beispiel einer kinematisch induzierten Lieschen Kreisverwandtschaft der isotropen Ebene. (English summary) [An example of a kinematically induced Lie circular transformation in the isotropic plane] **99m:53025**

Items with secondary classifications in 53A17

Dirnböck, Hans (*with* Stachel, Hellmuth) The development of the oloid. (English summary) **99d:51023**
Figueiredo, Vera *see* **Rodrigues Costa, Sueli I.; et al.**
Grou, Maria Alice *see* **Rodrigues Costa, Sueli I.; et al.**
Rodrigues Costa, Sueli I. (*with* Grou, Maria Alice; Figueiredo, Vera) Mechanical curves—a kinematic Greek look through the computer. (English summary)
Stachel, Hellmuth New applications of geometry. (English summary)
— *see also* **Dirnböck, Hans, 99d:51023**

53A20 Projective differential geometry

Arnol'd, Vladimir Igorevich Remarks on parabolic curves on surfaces and on higher-dimensional Möbius-Sturm theory. (Russian. Russian summary) **99h:53013**
Hangan, Theodor Sur un problème d'Élie Cartan. (English summary) [On a problem of Élie Cartan] **99h:53014**
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Zubė, S. Bidegree (2, 1) parametrizable surfaces in projective 3-space. (English and Lithuanian summaries) **99m:51030**

53A25 Differential line geometry

Abd El-Baky, Rashad A. The relation among Darboux vectors of ruled surfaces in a line congruence. (Italian summary) **99d:53013**
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Hacısalihoğlu, H. Hilmi *see* **Turgut, Aysel, 99h:53015**
Hassanien, S. F. On special line congruences and their Klein images on the absolutum of the 5-dimensional elliptic space S^{5}_{5}. (English summary) **99k:53010**
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Stamou, George Regelflächen vom Weingarten-Typ. [Ruled surfaces of Weingarten type] **99k:53003**
Tosun, Murat (*with* Aydemir, İsmail) On the $(k+1)$-dimensional space-like ruled surfaces in the Minkowski space $\mathbf{R}^{n}_{1}$. (English summary) **99h:53021**
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53A30 Conformal differential geometry

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Zorich, V. A. (*with* Kesel'man, V. M.) Conformal type and isoperimetric dimension of a Riemannian manifold. (Russian. Russian summary) **99e:53044**

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53A40 Other special differential geometries

Chen, Horng-Yang *see* **Wallner, Johannes; et al., 99g:53016**
Chen, Wei Huan (*with* Li, Hai Zhong) Spacelike Weingarten surfaces in $\mathbf{R}^{3}_{1}$ and the sine-Gordon equation. (English summary) **99b:53015**
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Alías, Luis J. (*with* Ferrández, Angel; Lucas, Pascual; Meroño, Miguel A.) On the Gauss map of B-scrolls. (English summary) **99k:53123**
Aydemir, İsmail (*with* Tosun, Murat; Kuruoğlu, Nuri) Properties of 2-dimensional space-like ruled surfaces in the Minkowski space $\mathbf{R}^{n}_{1}$. (English summary) **99h:53023**
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Chen, Wei Huan (*with* Su, Nong) The self-conjugate maximal surfaces in L^3. (English summary) **99g:53011**
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53A45 Vector and tensor analysis

Christensen, Steven M. Large scale tensor analysis by computer. (English summary) **99i:53007**
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53A50 Spinor analysis

Bilyalov, R. F. (*with* Nikitin, B. S.) Spinors in arbitrary frames. The covariant derivative and the Lie derivative of spinors. (Russian) **99m:53028**
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Gilkey, Peter B. (*with* Leahy, John V.; Park, Jeong Hyeong) ★ Spinors, spectral geometry, and Riemannian submersions. (English summary) **99a:58158**
Gori, Franco[1] (*with* Vicalvi, S.; Santarsiero, M.; Frezza, F.; Schettini, G.; Ambrosini, S.; Borghi, Riccardo) An elementary approach to spinors. (English summary) **99c:81073**
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53A55 Differential invariants (local theory), geometric objects

Fels, Mark (*with* Olver, Peter J.) Moving coframes. I. A practical algorithm. (English summary) **99c:53012**
Han, Chong-Kyu (*with* Yoo, Jae-Nyun) A note on É. Cartan's method of equivalence and local invariants for isometric embeddings of Riemannian manifolds. (English summary) **99d:53014**
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Muñoz Masqué, Jaime (*with* Valdés, A.) A report on functorial connections and differential invariants. (English and Italian summaries) **99b:53039**
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53A60 Geometry of webs [see also 14C21, 20N05]

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53B05 Linear and affine connections

Bácsó, Sándor *see* **Mikeš, Josef; et al.**, **99b:53020**
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Grigor'yants, A. A. On an interpretation of the torsion tensor of a connection. (Russian) **99i:53010**
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Shevchenko, Yu. I. Linear connections of holonomic and nonholonomic smooth manifolds. (Russian. English and Russian summaries) **99k:53013**
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Iliev, Bozhidar Z. Normal frames and the validity of the equivalence principle. III. The case along smooth maps with separable points of self-intersection. (English summary) **99f:53022**
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Shustova, E. P. An interrelation between geometries of a third-order tangent bundle and the Whitney sum. (Russian. English and Russian summaries) **99k:58010**

53B10 Projective connections

Dhooghe, Paul F. (*with* Van Vlierden, Annouk) Projective geometry on the bundle of volume forms. (English summary) **99d:53016**
Hirică, Iulia Elena Geodesically related Riemannian spaces. (Romanian. English and Romanian summaries) **99m:53030**
— *see also* **Udrişte, Constantin**, **99k:53015**
Udrişte, Constantin (*with* Hirică, Iulia Elena) Family of projective projections on tensors and connections. (English summary) **99k:53015**
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Ţigăeru, Cătălin v-projective symmetries of fibered manifolds. (English summary) **99h:53029**

53B15 Other connections

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Pal, R. B. On metric quarter-symmetric connections. (English summary)
Popescu, M. On induced non-linear connections. **99c:53014**
Sato, Hajime[1] (*with* Yoshikawa, Atsuko Yamada) Third order ordinary differential equations and Legendre connections. (English summary) **99f:53015**
Udrişte, Constantin *see* **Mihăilescu, Viorel**, **99k:53016**
Yoshikawa, Atsuko Yamada *see* **Sato, Hajime**[1], **99f:53015**

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Niţescu, Cătălina Transformations of the semi-symmetric metric connections. II. (Romanian summary) **99e:53016**
Opriş, Dumitru (*with* Albu, I. D.) Geometrical aspects of the covariant dynamics of higher order. (English summary) **99e:58004**

53B20 Local Riemannian geometry

Abdel-Mottaleb, N. *see* **Beltagy, M.**, **99e:53017**
Amirov, A. Kh. *see* **Hacısalihoğlu, H. Hilmi**, **99m:53031**
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Beltagy, M. (*with* Abdel-Mottaleb, N.) On deformations product. (English summary) **99e:53017**
Bonanos, S. A new spinor identity and the vanishing of certain Riemann tensor invariants. (English summary) **99b:53021**
Cheshkova, M. A. On a property of orthogonal surfaces. (Russian) **99b:53022**
De, U. C. (*with* Bandyopadhyay, Somnath) A study on generalized Ricci 2-recurrent spaces. (English summary) **99f:53016**
Deszcz, Ryszard (*with* Hotloś, Marian; Şentürk, Zerrin) On the equivalence of the Ricci-pseudosymmetry and pseudosymmetry. **99k:53017**
Ewert-Krzemieniewski, Stanisław Conformally birecurrent manifolds and some vector fields. **99k:53018**
García-Río, Eduardo (*with* Vanhecke, Lieven) Conformal geodesic transformations. (English summary) **99b:53023**
— (*with* Vanhecke, Lieven) Divergence-preserving geodesic transformations. (English summary) **99j:53015**
Hacısalihoğlu, H. Hilmi (*with* Amirov, A. Kh.) Finding a metric in three-dimensional Riemannian space with respect to Ricci and Einstein tensors. (English summary) **99m:53031**
Hotloś, Marian *see* **Deszcz, Ryszard; et al.**, **99k:53017**
Ibragimova, R. Kh. Motions on tangent bundles that preserve orthogonal and tangent structures. (Russian) **99i:53012**
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— On concircular mappings in Riemannian manifolds with recurrent conditions. **99a:53014**
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Singh, Bhanu Pratap (*with* Singh, Shree Dhar) Curvature tensor of relativistic significance in a C^∞-manifold equipped with unified structure. (English summary)
Singh, Hukum (*with* Khan, Quddus) On a generalized r-recurrent Riemannian manifold. (English summary) **99k:53019**
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Wolf, Thomas Otto Structural equations for Killing tensors of arbitrary rank. (English summary) **99m:53032**
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Hacısalihoğlu, H. Hilmi (*with* Amirov, A. Kh.) On the interrelations between the metric and curvature tensor in an n-dimensional Riemannian space. (Russian. Russian summary) **99k:53020**
Hirică, Iulia Elena Geodesically related Riemannian spaces. (Romanian. English and Romanian summaries) **99m:53030**

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Amirov, A. Kh. *see* **Hacısalihoğlu, H. Hilmi**, **99k:53020**
Fiedler, Bernd A characterization of the dependence of the Riemannian metric on the curvature tensor by Young symmetrizers. (English summary) **99g:53020**
Grecu, Eftimie La variété du groupe unitaire dual. (French summary) [The manifold of the dual unitary group] **99b:53025**
Hacısalihoğlu, H. Hilmi (*with* Amirov, A. Kh.) On the interrelations between the metric and curvature tensor in an n-dimensional Riemannian space. (Russian. Russian summary) **99k:53020**
Portugal, R. An algorithm to simplify tensor expressions. (English summary) **99i:53014**

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— On concircular mappings in Riemannian manifolds with recurrent conditions. **99a:53014**
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Arslan, Kadri (*with* Çelik, Yunus; Deszcz, Ryszard; Özgür, C.) Submanifolds all of whose normal sections are W-curves. (English summary) **99e:53018**
Canfes, Elif Özkara (*with* Özdeğer, Abdülkadir) Some applications of prolonged covariant differentiation in Weyl spaces. (English summary) **99a:53015**
Çelik, Yunus *see* **Arslan, Kadri; et al.**, **99e:53018**
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Erkekoğlu, Fazilet On Darboux function. (English and Turkish summaries) **99a:53016**
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Sokolovskaya, S. I. On connections induced on surfaces of a projective space by the Bortolotti equipments. (Russian. Russian summary) **99d:53017**
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Sun, Guo Han (*with* Zhao, Pei Biao; Chen, Guang Hua) Completely quasiumbilical submanifolds and completely umbilical submanifolds coincide. (Chinese)
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García-Río, Eduardo (*with* Vanhecke, Lieven) Conformal geodesic transformations. (English summary) **99b:53023**
Gor′kavyĭ, Vasiliĭ A reduction theorem in the problem of reconstructing submanifolds in a Euclidean space from a given Grassmannian image. (Russian. English, Russian and Ukrainian summaries) **99d:53008**
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53B30 Lorentz metrics, indefinite metrics

Asil, Vedat On B-scroll surface in D_1^3 (the dual Lorentzian space). (English summary)
Aydemir, İsmail (*with* Tosun, Murat; Kuruoğlu, Nuri) Properties of 2-dimensional space-like ruled surfaces in the Minkowski space $\mathbf{R}_1^n$. (English summary) **99h:53023**
— *see also* **Tosun, Murat, 99h:53021**
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Krioukov, Alexei A. Kähler extensions of Riemannian manifolds. **99b:53030**
Negi, Darwan Singh (*with* Rawat, K. S.) Integral inequalities in Kaehlerian manifold.
— (*with* Rawat, K. S.) Theorems on Kaehlerian spaces with recurrent and symmetric Bochner curvature tensor.
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Mikeš, Josef Holomorphically projective mappings and their generalizations. **99f:53031**
Mirzoyan, V. A. Structure theorems for Kählerian Ric-semisymmetric spaces. (Russian. Armenian summary) **99h:53095**

53B40 Finsler spaces and generalizations (areal metrics)

Anastasiei, Mihai (*with* Čomić, Irena) Geometry of k-Lagrange spaces of second order. **99d:53020**
— (*with* Bucătaru, Ioan) Jacobi fields in generalized Lagrange spaces. (English summary) **99k:53024**
Bácsó, Sándor (*with* Matsumoto, Makoto) On Finsler spaces of Douglas type. II. Projectively flat spaces. (English summary) **99k:53025**
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Boccaletti, D. (*with* Di Bari, M.; Cipriani, P.; Pucacco, G.) Finsler geometry in classical mechanics and in Bianchi cosmological models. (English summary) **99c:53015**
Boskoff, Vladimir Finslerian and induced Riemannian structures for natural Barbilian spaces. (English summary)
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Chen, Qi Xu Induced connections on submanifolds in Finsler spaces. (Chinese. English and Chinese summaries) **99a:53017**
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Čomić, Irena Recurrent Hamilton spaces with generalized Miron's d-connection. (English summary)
— Different adapted bases and metrical generalized connections. (English summary) **99k:53026**
— *see also* **Anastasiei, Mihai, 99d:53020**
Dan′shin, A. Yu. Infinitesimal conformal transformations in tangent bundles of Finsler manifolds. (Russian) **99f:53019**
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Evtushik, L. E. Cartan connections and Kawaguchi geometry of spaces obtained by the moving frame method. **99i:53015**
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— (*with* Park, Hong-Suh) Equations of geodesics in two-dimensional Finsler spaces with (α,β)-metric. (English summary) **99k:53028**
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Murărescu, Gheorghe Sur les connexions de Finsler projectives. (English and French summaries) [On projective Finsler connections] (*see* **99e:53001**)
— (*with* Stavre, Petre) Sur les connexions Finsler-projectives. III. (English summary) [Finsler-projective connections. III] **99m:53035**
Nikić, Jovanka Linear connections compatible with the $F(3,1)$-structure on the Lagrangian space. (English summary) **99b:53031**
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Park, Ha-Yong (*with* Park, Hong-Suh) The induced and intrinsic connections of Berwald type in a Finslerian hypersurface. (English summary) **99i:53019**
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— (*with* Park, Ha-Yong) On Finsler metrics compatible with $\varphi(4,2)$-structure. **99b:53032**
— *see also* **Park, Ha-Yong, 99i:53019** *and* **Matsumoto, Makoto, 99k:53028**
Prasad, Baij Nath (*with* Pandey, T. N.; Singh, C. S.) Recurrent Finsler connection in a Finsler space with (α,β) metric. (English summary) **99m:53036**
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Asanov, G. S. A Finslerian approach to quantum field theory: positivity of the energy of a scalar field and a generalization of Pauli-Jordan functions. (Russian. Russian summary) **99f:81210**
— Finslerian invariant and coordinate length in an inertial frame of reference. (Russian. Russian summary) **99i:83002**
Bao, David (*with* Chern, Shiing-Shen; Shen, Zhong Min) Rigidity issues on Finsler surfaces. (English summary) **99h:53099**
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Iliev, Bozhidar Z. Normal frames and the validity of the equivalence principle. III. The case along smooth maps with separable points of self-intersection. (English summary) **99f:53022**
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53B99 None of the above, but in this section

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Boskoff, Vladimir S-Riemannian manifolds and Barbilian spaces. (English summary)
Santilli, Ruggero Maria Isotopies of local-differential geometries. (English summary) **99b:53034**

53Cxx Global differential geometry [see also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]

Jost, Jürgen ★ Riemannian geometry and geometric analysis. (English summary) **99g:53025**

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Berger, Marcel Riemannian geometry during the secon 1 half of the twentieth century. **99h:53001**
Goldberg, Samuel I. ★ Curvature and homology. (English summary) **99c:53001**
Milman, Vitali D. Surprising geometric phenomena in high-dimensional convexity theory. (English summary) **99j:52001**

53C05 Connections, general theory

Bär, Christian (*with* Bleecker, D.) Connections on soldered principal bundles. (English summary) **99m:53038**
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Berger, Marcel Groupes d'holonomie des variétés à connexion affine. [Holonomy groups of affinely connected manifolds] (*see* **99f:00035**)
Biswas, S. C. (*with* De, U. C.; Barua, B.) Semi-symmetric non-metric connection in an SP-Sasakian manifold. (English summary) **99j:53021**
— (*with* De, U. C.) Quarter-symmetric metric connection in an SP-Sasakian manifold. (English summary) **99d:53022**
Blažić, Novica (*with* Bokan, Neda; Gilkey, Peter B.) Pontrjagin forms, Chern Simons classes, Codazzi transformations, and affine hypersurfaces. (English summary) **99m:53039**
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Bokan, Neda *see* **Blažić, Novica; et al., 99m:53039**
Bucătaru, Ioan Characterizations of nonlinear connection in higher order geometry. (English summary) **99k:53033**
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Dekrét, Anton On skew 2-projectable almost complex structures on TM. (English summary) **99g:53026**
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Gel′fand, Izrail′ Moiseevich (*with* Retakh, Vladimir; Shubin, Mikhail) Fedosov manifolds. **99d:53023**
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Karcher, H. Submersions via projections. (English summary) **99m:53040**
Kolář, Ivan (*with* Virsik, George) Connections in first principal prolongations. (English summary) **99e:53023**
— On generalized parallelisms. (English summary) **99m:53041**
Kostadinov, Georgi A class of invariant affine connections on the Stiefel manifolds.
Kureš, M. Some properties of connections on iterated tangent bundles. (English summary) **99j:53022**
Lewis, Andrew D. Affine connections and distributions with applications to nonholonomic mechanics. (English summary) **99m:53042**
Megged, O. Non-split geometry on products of vector bundles. (English summary) **99m:53043a**
— Corrigendum: "Non-split geometry on products of vector bundles". **99m:53043b**
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— (*with* Popescu, Paul) d-linear connections on fibred manifolds. (English summary) **99k:53037**
— (*with* Popescu, Paul) On the structure equations of the induced linear connections. (English summary) **99k:53038**
— Induced semi-sprays and connections on submanifolds. (English summary) **99m:53044**
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Vosylius, R. On the theory of differential-geometric connections. II. (Russian. Lithuanian summary) **99a:53021**

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Albu, I. D. (*with* Opriş, Dumitru) Geometrical objects associated to special cotangent transformations. (English and Romanian summaries) **99c:53021**
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— *see also* **Miron, Radu; et al., 99g:53033**
Castrillón López, Marco (*with* Muñoz Masqué, Jaime) Structure symplectique généralisée sur le fibré des connexions. (English and French summaries) [Generalized symplectic structure on the bundle of connections] **99m:58036**
Cnops, J. Manifolds with and without embeddings. (English summary) **99e:58168**
Dashevich, O. V. Canonical structures of classical type on regular Φ-spaces, and invariant affine connections. (Russian) **99h:53067**
Echeverría-Enríquez, Arturo (*with* Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) Multivector fields and connections: setting Lagrangian equations in field theories. (English summary) **99i:58059**
Epstein, Marcelo (*with* de León, Manuel) Geometrical theory of uniform Cosserat media. (English summary) **99d:73018**
García-Río, Eduardo (*with* Vázquez-Abal, María Elena) Harmonic tensor fields. (English summary) **99j:53036**
Kim, Hong-Jong Elliptic differential operators and the theory of characteristic classes. (Korean. Korean summary) **99f:58184**
Kolář, Ivan (*with* Modugno, Marco) The Frölicher-Nijenhuis bracket on some functional spaces. (English summary) **99c:58009**
— On holonomicity criteria in second order geometry. (English summary) **99h:58006**
Koszul, Jean-Louis Cohomologie des espaces fibrés différentiables et connexions. [Cohomology of differentiable fiber spaces and connections] (*see* **99f:00033**)
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— ★ Geometry of vector sheaves. Vol. II. (English summary) **99g:58003**
Merkulov, Sergei (*with* Schwachhöfer, L. J.) Twistor solution of the holonomy problem. **99j:53025**
Michor, Peter W. The Jacobi flow. **99f:53043**
— (*with* Schichl, H.) No slices on the space of generalized connections. (English summary) **99g:58018**
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53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32L07]

Balan, Vladimir (*with* Munteanu, Gheorghe; Stavrinos, P. C.) Generalized gauge Asanov equations on $\mathrm{Osc}^{(2)}(M)$ bundle. (English summary) **99f:53024**
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Ivanova, T. A. Self-dual Yang-Mills connections and generalized Nahm equations. **99k:53039**
— On infinitesimal symmetries of the self-dual Yang-Mills equations. (English summary) **99m:53045**
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Kovalev, A. G. On the reduction of Yang-Mills instantons to Nahm's equations. (Russian) **99c:53016**
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Li, Jun[1] Anti-self-dual connections and stable vector bundles. **99e:53025**
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— A generalization of the notion of instanton. (English summary) **99a:53024**
Ross, Dennis K. Minimally-extended fiber bundle models of gauge theories. (English summary) **99e:53026**
Saçhoğlu, Cihan (*with* Nergiz, Serdar) Seiberg-Witten monopole equations and Riemann surfaces. (English summary) **99c:53019**
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Anco, Stephen C. Nonlinear gauge theories of a spin-two field and a spin-three-halves field. (English summary) **99i:53074**
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Carvalho, Marcelo Ferreira Lima (*with* Vilar, L. C. Q.; Helayël-Neto, José A.) Supersymmetric non-linear σ-models and their gauging in the Atiyah-Ward space-time. (English summary) **99c:81233**
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Chen, Yun Mei (*with* Shen, Chun-Li) Evolution problem of Yang-Mills flow over 4-dimensional manifold. **99g:58030**
Dereli, T. (*with* Tekmen, M.) Wu-Yang monopoles and non-abelian Seiberg-Witten equations. (English summary) **99m:81140**
— *see also* **Bilge, A. H.; et al., 99i:53075**
Douglas, Michael R. Gauge fields and D-branes. (English summary) **99j:81136**
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Karpov, B. V. Algebro-geometric aspects of S-duality. (Russian. Russian summary) **99g:14012**
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Leung, Nai-Chung Conan Symplectic structures on gauge theory. (English summary) **99k:58171**
Li, Weiping[1] Singular connections and Riemann theta functions. (English summary) **99j:58035**
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Pauly, Marc Monopole moduli spaces for compact 3-manifolds. **99h:58026**
Schlatter, A. E. (*with* Struwe, Michael; Tahvildar-Zadeh, A. Shadi) Erratum: "Global existence of the equivariant Yang-Mills heat flow in four space dimensions" [Amer. J. Math. **120** (1998), no. 1, 117–128; MR 98k:58063]. **Schroers, B. J.** *see* **Bais, F. A., 99c:58023**
Sengupta, Ambar N. A Yang-Mills inequality for compact surfaces. (English summary) **99d:58043**
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To, Wing-Keung (*with* Weng, Lin) Curvature of the L^2-metric on the direct image of a family of Hermitian-Einstein vector bundles. (English summary) **99d:32038**
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53C10 G-structures

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Fatibene, Lorenzo (*with* Francaviglia, Mauro) Spin structures on manifolds. (English summary) **99m:53047**
Fernández, Marisa (*with* Ugarte, Luis) Dolbeault cohomology for G_2-manifolds. (English summary) **99b:53038**
Francaviglia, Mauro *see* **Fatibene, Lorenzo, 99m:53047**
Kath, I. $G^*_{2(2)}$-structures on pseudo-Riemannian manifolds. (English summary) **99i:53023**
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Merkulov, Sergei (*with* Schwachhöfer, L. J.) Twistor solution of the holonomy problem. **99j:53025**
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Opozda, Barbara On locally homogeneous G-structures. (English summary) **99k:53042**
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Tomassini, Adriano Homogeneous G-geometries and uniformization. (Italian)
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53C12 Foliations (differential geometric aspects) [see also 57R30, 57R32]

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Eells, James (*with* Verjovsky, Alberto) Harmonic and Riemannian foliations. (English summary) **99b:53040**
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Berndt, Jürgen (*with* Prüfer, Friedbert; Vanhecke, Lieven) Totally geodesic submanifolds of symmetric-like Riemannian manifolds. (English summary) **99i:53054**
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53Z05 Applications to physics

54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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54–02 Research exposition (monographs, survey articles)

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54–03 Historical (must also be assigned at least one classification number from Section 01)

Aroca Hernández-Ros, José Manuel The problems of realizability and invariance of dimension in the works of Flores de Lemus. (Spanish) **99f:54001**
Dasgupta, H. *see* **Lahiri, B. K.; et al., 99c:54001**
(Flores, Antonio I.) *see* **Padilla Gálvez, Jesús, 99f:54002**
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54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

Arkhangel'skiĭ, A. V. (*with* Gordienko, I. Yu.) Relative symmetrizability and metrizability. (English summary) **99i:54003**
Arvası, Zekeriya *see* **Koçak, Mahmut**, **99m:54001**
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Chicourrat, Monique Ultrafilters, extensions of proximities and closure spaces. Resolution of a problem of F. Riesz. (English summary) (*see* **99a:54002**)
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54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

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54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

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Xin, Yu Mei (*with* Cai, Yue Jiang; Xie, Hong Zheng) S-convergence and S-compactness on topological spaces. (Chinese. English and Chinese summaries)

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Burton, M. H. (*with* Muraleetharan, M.; Gutiérrez García, J.) Generalised filters. I. (English summary)

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— (*with* Rose, David Alon) Extremal disconnectedness modulo dual filtrations. (English summary) **99b:54057**

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54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx, 04A30] {For ultrafilters, see 54D80.}

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Antonyan, S. A. Extension properties of the orbit space. (English summary) (*see* **99a:54002**)
Bălan, Trandafir T. Operating with horistologies. (English summary)
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54B17 Adjunction spaces and similar constructions

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54B20 Hyperspaces

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Bălan, Virgil C. Topologies associées a une horistologie. (French summary) [Topologies associated with a horistology]
Banakh, T. O. (*with* Cauty, Robert) Hyperspaces of nowhere topologically complete spaces. (Russian. Russian summary) **99f:54012**
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Brandsma, Henno (*with* van Mill, Jan) A compact HL-space need not have a monolithic hyperspace. (English summary) **99a:54007**
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Charatonik, Janusz J. Recent results on induced mappings between hyperspaces of continua. (English summary) **99k:54005**
— (*with* Charatonik, Włodzimierz J.) Inducible mappings between hyperspaces. (English summary) **99b:54011**
— (*with* Charatonik, Włodzimierz J.) Questions on induced universal mappings. (English summary) **99i:54013**
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Cauty, Robert The strong universality property and its applications. (Russian) **99i:57040**
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Fedorchuk, V. V. The Suslin number of the functor of probability measures. (English summary) **99e:54001**
Fujii, S. (*with* Nogura, Tsugunori) Characterizations of compact ordinal spaces via continuous selections. (English summary) **99k:54011**
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— Complete metrizability of generalized compact-open topology. (English summary) **99m:54015**
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54B30 Categorical methods [see also 18B30]

He, Wei[1] The relation between sublocales and subspaces. (Chinese. English and Chinese summaries)
Herrlich, Horst Stabilität topologischer Eigenschaften unter kategoriellen Konstruktionen. [Stability of topological properties under categorical constructions] (*see* **99f:01003**)
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Baran, Mehmet Completely regular objects and normal objects in topological categories. (English summary) **99d:18005**
Bautista, Serafín (*with* Varela, Januario) On the co-completeness of the category of Hausdorff uniform spaces. (English summary) **99i:18007**
Bunge, Marta C. (*with* Funk, Jonathon) Spreads and the symmetric topos. II. (English summary) **99k:18006a**
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Cagliari, Francesca (*with* Mantovani, Sandra) The exponentiable morphisms in Kelley are the open maps. (English summary) **99b:18008**
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Chen, Yi Xiang Semilattices and representations of domains. (Chinese. English and Chinese summaries) **99i:06005**
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Mikhaĭlov, M. È. Decomposition of finite pseudometric spaces. (Russian. Russian summary) **99e:54023**
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54C05 Continuous maps

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Ciesielski, Krzysztof² (*with* Dikranjan, Dikran N.; Watson, W. Stephen) Functions characterized by images of sets. **99f:54013**
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Kupka, Ivan A strong type of continuity natural for compact spaces. (English summary) **99g:54007**
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Bella, Angelo (*with* Malykhin, V. I.) Tightness and resolvability. (English summary) **99j:54004**
Bonanzinga, Maddalena (*with* Cammaroto, Filippo[1]) On cleavability over $T_{i,\rho}$ spaces. (Italian summary) **99b:54004**
Burke, Maxim R. (*with* Ciesielski, Krzysztof[2]) Sets on which measurable functions are determined by their range. (English summary) **99i:28004**
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Dontchev, Julian Between $\mathscr{I}$- and $\mathscr{B}$-sets. (English summary)
Filippov, V. V. On a condition for the uniform continuity of a sequence of solution spaces. (Russian. Russian summary) **99e:34021**
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Janiš, Vladimír[2] Fuzzy uniformly continuous functions. (English summary) (*see* **99f:00022**)
Juhász, István Cardinal functions on continuous images. (English summary) **99a:54005**
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Kwiecińska, Grażyna Approximately continuous multivalued functions in abstract spaces. (*see* **99a:54002**)
Luo, Jun A simple proof of a small conjecture on topological entropy. (Chinese. English and Chinese summaries) **99m:54030**
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Merentes, N. (*with* Nikodem, Kazimierz; Rivas, S.) Continuity of the superposition of set-valued functions. (English summary) **99a:47114**
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Zhang, Guangji θ-continuous functions and θ-compactness in fuzzifying topology. (English and Chinese summaries)

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Basu, C. K. On strongly irresolute and γ-continuous functions. (English summary)
Borsík, Ján On products of quasicontinuous functions. (English summary) **99b:54018**
— Oscillation for quasicontinuity. (English summary) **99g:54008**
Chew, James More remarks on generalized forms of continuity.
Domnik, Irena On some characterization of quasi-continuous functions.
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Jafari, Saeid (*with* Noiri, Takashi) On almost weakly continuous functions. (English summary)
— Some properties of quasi θ-continuous functions. (English summary)
— (*with* Noiri, Takashi) Some remarks on weak α-continuity. (English summary)
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Maliszewski, Aleksander On the differences of upper semicontinuous quasi-continuous functions. (English summary)
Noiri, Takashi (*with* Popa, Valeriu) On almost β-continuous functions. (English summary) **99b:54019**
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— *see also* **Noiri, Takashi, 99b:54019**
Reilly, Ivan L. On generalized open sets and decompositions of continuity. (English summary) **99i:54015**
Saleh, Mohammad A. Almost continuity implies closure continuity. (English summary) **99c:54016**
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Singh, Virendra Pratap[2] (*with* Pooniwala, R. K.) Concerning semicontinuous functions. (English summary)
Wesołowska, Jolanta On the strong quasi-continuity of multivalued maps. (English summary) (*see* **99f:00022**)
Xu, Rong Cong A theorem of Banach in topological spaces and almost continuity. (Chinese. English and Chinese summaries)
Yang, Gan Shan (*with* Yuan, Xian-Zhi) A necessary and sufficient condition for upper hemicontinuous set-valued mappings without compact-values being upper demicontinuous. (English summary) **99b:54020**
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Doliwa, Dariusz (*with* Pawlak, Ryszard Jerzy) On the almost continuity of the diagonal of functions. (English summary) **99h:26006**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) α-scattered spaces. II. (English summary)
— Between $\mathscr{I}$- and $\mathscr{B}$-sets. (English summary)
— (*with* Ganster, Maximilian; Noiri, Takashi) Unified operation approach of generalized closed sets via topological ideals. (English summary)
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— (*with* Funk, Jonathon) Erratum to: "Spreads and the symmetric topos. II". **99k:18006b**
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— (*with* Charatonik, Włodzimierz J.) Universality of weakly arc-preserving mappings. (English summary) **99k:54023**
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— (*with* Tanaka, Yoshio) Star-countable k-networks, and quotient images of locally separable metric spaces. (English summary) **99c:54012**
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54C35 Function spaces [see also 46Exx, 58D15]

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54C50 Special sets defined by functions [see also 26A21]

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54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [see also 55M15]

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54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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Xu, Hong-Kun (*with* Beg, Ismat) Measurability of fixed point sets of multivalued random operators. (English summary) **99f:47093**
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— *see also* **Jung, Jong Soo; et al.**
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54C65 Selections [see also 28B20]

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— (*with* Shakhmatov, Dmitriĭ B.) Characterizations of intervals via continuous selections. (English summary) **99d:54012**
— *see also* **Fujii, S.**, **99k:54011**
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— *see also* **Ageev, S. M.**, **99h:54030**
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Shchepin, E. V. (*with* Brodskiĭ, N. B.) Selections of filtered multivalued mappings. (Russian) **99g:54014**
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Tolstonogov, A. A. Continuous selectors of multivalued mappings with nonclosed decomposable values, and their properties. (Russian) **99a:54013**
— (*with* Tolstonogov, D. A.) L_p-continuous extremal selections of multivalued mappings with decomposable values. (Russian) **99c:54026**
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Forti, Marco (*with* Honsell, Furio) Addendum and corrigendum: "Choice principles in hyperuniverses" [Ann. Pure Appl. Logic **77** (1996), no. 1, 35–52; MR 97a:03060]. (English summary) **99c:03069**
Gutev, Valentin G. Extending of homotopies via selections and extending of selections via homotopies. (English summary) (*see* **99a:54002**)
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— On generalized KKM type selections in generalized H-spaces. (English summary)
— R-KKM selections applied to minimax inequalities. (English summary)
— Intersection theorems on generalized H-convex sections. (English summary)
— On generalized nonlinear variational inequalities on G-H-spaces. (English summary)
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— (*with* Li, Feng) Approximate selection theorems in H-spaces with applications. (English summary) **99j:54044**
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54C70 Entropy

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Haagerup, Uffe (*with* Størmer, Erling) Maximality of entropy in finite von Neumann algebras. (English summary) **99c:46069**
Iwai, Keiichiro Continuity of topological entropy of one-dimensional maps with degenerate critical points. (English summary) **99e:58060**
Keesling, James *see* **Block, Louis**, **99c:54054**
Leonov, N. N. ε-entropy of sets in ultrametric spaces. (Russian. English and Russian summaries) **99i:41036**
Liao, Gongfu (*with* Fan, Qinjie) Minimal subshifts which display Schweizer-Smítal chaos and have zero topological entropy. (English summary) **99d:54023**
Luo, Jun A simple proof of a small conjecture on topological entropy. (Chinese. English and Chinese summaries) **99m:54030**
Morris, Gary David (*with* Ward, Thomas B.) Entropy bounds for endomorphisms commuting with K actions. (English summary) **99m:28042**
Richter, Christian Entropy, approximation quantities and the asymptotics of the modulus of continuity. (English summary) **99j:41051**
Shen, Su Lin Induced map with property P on inverse limit space. (English and Chinese summaries)
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Ye, Xiang Dong The dynamics of a sequence of continuous maps and indecomposability. (Chinese. Chinese summary) **99b:54070**

54C99 None of the above, but in this section

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Karno, Zbigniew Stably essential mappings onto disks. (English summary) **99h:54031**
Kharazishvili, A. B. On a condensation principle for singularities. (Russian. English and German summaries) **99g:54015**

Rukhadze, V. Realcompact like mappings. (Russian and Georgian summaries) **99g:54016**
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Chaatit, F. On simple DBSC functions. (English summary) **99d:46029**
Chakraborty, R. P. (*with* Bhattacharyya, Anjana) On irresolute fuzzy multifunctions. (English summary)
Haywood, Joel D. A partial characterization of universal images of graphs using decompositions of trees. (English summary) **99j:54034**
Kawamura, Kazuhiro (*with* Tsuda, Kôichi) Universal spaces for finite-dimensional closed images of locally compact metric spaces. (English summary) **99c:54044**
Li, Ke Dian The strong compact-covering ss-images of metric spaces. (English summary) **99f:54039**
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54Dxx Fairly general properties

54D05 Connected and locally connected spaces (general aspects)

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Robins, V. (*with* Meiss, James D.; Bradley, Elizabeth) Computing connectedness: an exercise in computational topology. (English summary) **99g:54017**
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Tkachuk, Vladimir V. When do connected spaces have nice connected preimages? (English summary) **99a:54015**
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Charris, Jairo A. (*with* Moreno, Carmenza; Mora-Valbuena, Oriol) Some remarks on the local path-connectedness of infinite point compactifications. (English and Spanish summaries)
Clementino, Maria Manuel (*with* Tholen, Walter) Separated and connected maps. (English summary) **99h:18005**
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Cristescu, Gabriela Topologies compatible with the connectivity in networks. (English summary)
Dikranjan, Dikran N. Compactness and connectedness in topological groups. (English summary) **99b:54060**
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Kanibir, Alev *see* **Ganster, Maximilian; et al., 99j:54002**
Lord, Harriet Connectednesses and disconnectednesses. II. (English summary) **99d:18001**
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Mora-Valbuena, Oriol *see* **Charris, Jairo A.; et al.**
Moreno, Carmenza *see* **Charris, Jairo A.; et al.**
Mršević, Mila (*with* Reilly, Ivan L.) A note on local connectedness in bitopological spaces. (English summary)
Neumann-Lara, Víctor (*with* Wilson, Richard Gordon) Compact compatible topologies for posets and graphs. (English summary) **99j:05128**
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Zheng, Chong-You Connectivity in L-fuzzy bitopological spaces. (*see* **99g:00046**)

54D10 Lower separation axioms, (T_0–T_3, etc.)

Acharyya, S. K. (*with* Ghosh, Partha Pratim) Locally Hausdorff spaces. (English summary)
Barger, S. F. Hereditary sobriety and the cardinality of T_1 topologies on countable sets. (English summary) **99e:54014**
Chandel, Raghvendra Singh *see* **Ganguly, Ashok; et al.**
Dube, K. K. (*with* Patel, B. N.) Semi-separation concerning with finite sets. (English summary)
Ganguly, Ashok (*with* Tapi, U. D.; Chandel, Raghvendra Singh) Some results on general topology. (English summary)
Ghosh, Partha Pratim *see* **Acharyya, S. K.**
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Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Separation axioms for some modifications of the core topology. **99m:54009**
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Zhou, Ping[1] Minimal complete Hausdorff spaces. (Chinese. English and Chinese summaries)

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Abd El-Monsef, M. E. (*with* Kozae, A. M.; Abo Khadra, A. A.) Co-s-closed topologies. (English and Chinese summaries)
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— (*with* Ganster, Maximilian; Noiri, Takashi) Unified operation approach of generalized closed sets via topological ideals. (English summary)
Egghe, L. Properties of topologies of information retrieval systems. (English summary) **99b:68061**
Ganguly, Sobhakar (*with* Basu, C. K.; Sinha Roy, S.) Existence of an invariant measure on a generalized topological group. (English summary) **99e:54029**
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Hadjiantoniou, Aristotle Čech-Stone quotient functions. (English summary)
Hatır, Eşref On P_3 and R_3 separation axioms. (English and Turkish summaries)
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Kubiak, Tomasz (*with* de Prada Vicente, María Angeles) On internal characterizations of completely L-regular spaces. (English summary) **99d:54003**
Li, Ke Dian The strong compact-covering ss-images of metric spaces. (English summary) **99f:54039**
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Noiri, Takashi *see* **Yoshimura, M.; et al., 99k:54006** *and* **Dontchev, Julian; et al.**
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Stone, A. H. σ-fields of bad Borel sets. (English summary) **99a:54025**
Tzannes, V. On countable first countable connected Hausdorff spaces. (English summary) **99h:54032**
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Winkler, Reinhard A simple Hausdorff space which is Lindelöf, first countable, CCC but not separable. (English summary) **99m:54025**
Yoshimura, M. (*with* Miwa, Takuo; Noiri, Takashi) A generalization of regular closed and g-closed functions. (English summary) **99k:54006**

54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)

Bonanzinga, Maddalena Star-Lindelöf and absolutely star-Lindelöf spaces. (English summary) **99e:54015**

Brandsma, Henno (*with* van Mill, Jan) Monotone normality, measures and hyperspaces. (English summary) **99f:54027**

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Dontchev, Julian (*with* Popvassilev, S.; Stavrova, D. N.) On the η-expansion topology for the co-semi-regularization and mildly Hausdorff spaces. (English summary) **99c:54028**

Gartside, P. M. Monotone normality in products. (English summary) **99k:54012**

Grunberg, Renata (*with* Junqueira, Lúcia R.; Tall, Franklin D.) Forcing and normality. (English summary) **99e:54016**

Hatır, Eşref On P_3 and R_3 separation axioms. (English and Turkish summaries)

Jimenez, Rolando *see* **Dobrowolski, Tadeusz; et al., 99h:54033**

Junqueira, Lúcia R. *see* **Grunberg, Renata; et al., 99e:54016**

Just, Winfried (*with* Tartir, Jamal) A κ-normal, not densely normal Tychonoff space. (English summary) **99f:54028**

Lin, Shou Normality of locally convex spaces. (Chinese. English and Chinese summaries) **99f:54029**

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Pyrih, Pavel A space losing the normality with one point. (English summary) **99m:54010**

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Sunitha, T. A. Some separation properties in monotone spaces. (English summary)

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Yang, Lecheng The normality in products with a countably compact factor. (English summary) **99c:54030**

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Brown, Lawrence M. (*with* Diker, Murat) Paracompactness and full normality in ditopological texture spaces. (English summary) **99f:54010**

Buhagiar, David (*with* Miwa, Takuo) Covering properties on maps. (English summary) **99a:54016**

Chandel, Raghvendra Singh *see* **Ganguly, Ashok; et al.**

Chung, Se Hwa Separation axioms for fuzzy syntopogenous spaces. (English summary)

Cook, H. (*with* Reed, G. M.) On the non-productivity of normality in Moore spaces. (English summary) **99f:54036**

Debray, Atasi *see* **Mukherjee, M. N., 99k:54015**

Diker, Murat *see* **Brown, Lawrence M., 99f:54010**

Dube, K. K. (*with* Patel, B. N.) Semi-separation concerning with finite sets. (English summary)

Ganguly, Ashok (*with* Tapi, U. D.; Chandel, Raghvendra Singh) Some results on general topology. (English summary)

Holá, Ľubica (*with* Levi, S.; Pelant, Jan) Normality and paracompactness of the Fell topology. (English summary) **99j:54014**

Howard, Paul E. (*with* Keremedis, Kyriakos; Rubin, Herman; Rubin, Jean E.) Versions of normality and some weak forms of the axiom of choice. (English summary) **99h:03027**

Ishii, Tadashi Products of S_2 spaces with S_3 spaces.

Junnila, Heikki J. K. (*with* Yajima, Yukinobu) Normality and countable paracompactness of products with σ-spaces having special nets. (English summary) **99i:54011**

Junqueira, Lúcia R. (*with* Tall, Franklin D.) The topology of elementary submodels. (English summary) **99a:54003**

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54D45 Local compactness, σ-compactness

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Arkhangel'skiĭ, A. V. (*with* Calbrix, Jean) A characterization of σ-compactness of a cosmic space X by means of subspaces of R^X. (English summary) **99j:54019**
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Tanaka, Yoshio k-networks, and spaces having the weak topology with respect to closed covers of metric subspaces. (English summary) **99c:54037**
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54D55 Sequential spaces

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54D60 Realcompactness and realcompactification

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Narici, Lawrence (*with* Beckenstein, Edward) The separating map: a survey. (English summary) **99k:46032**
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54D70 Base properties

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Lutzer, David *see* **Bennett, Harold, 99i:54044**
Shi, Wei-Xue A non-metrizable compact linearly ordered topological space, every subspace of which has a σ-minimal base. (English summary) **99m:54020**

54D80 Special constructions of spaces (spaces of ultrafilters, etc.)

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Mala, József Finitely generated quasi-proximities. (English summary) **99i:54028**
Péraire, Yves Proximités et topologies. [Proximities and topologies] **99c:54040**
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Bălan, Virgil C. (*with* Hamburg, Peter) Sur l'uniformisabilité de la convergence continue. [On the uniformalizability of continuous convergence]
Collins, P. J. (*with* Morita, Kiiti) Coverings versus entourages. (English summary) **99a:54021**
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— *see also* **Künzi, Hans-Peter A., 99f:54035**
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Angelov, Vasil G. Fixed points of multi-valued mappings in uniform spaces. (English summary)
Bentley, H. L. (*with* Herrlich, Horst) On the strict completion of a nearness space. (English summary) **99d:54014**
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Buhagiar, David (*with* Miwa, Takuo) Ordered uniform completions of GO-spaces. (English summary) **99i:54045**
Burton, M. H. (*with* Muraleetharan, M.; Gutiérrez García, J.) Generalised filters. I. (English summary)
— *see also* **Gutiérrez García, J.; et al., 99h:54006**
Cao, Jiling (*with* Reilly, Ivan L.; Romaguera, Salvador) Some properties of quasiuniform multifunction spaces. (English summary) **99c:54019**
— (*with* Künzi, Hans-Peter A.; Reilly, Ivan L.; Romaguera, Salvador) Quasi-uniform hyperspaces of compact subsets. (English summary) **99c:54014**
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Di Maio, G. (*with* Holá, Ľubica; Holý, D.; McCoy, Robert A.) Topologies on the space of continuous functions. (English summary) (*see* **99a:54002**)
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Gutiérrez García, J. (*with* de Prada Vicente, María Angeles; Burton, M. H.) Embeddings into the category of super uniform spaces. (English summary) **99h:54006**
— (*with* de Prada Vicente, María Angeles) Super uniform spaces. (English summary) (*see* **99c:54002**)
— *see also* **Burton, M. H.; et al.**
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Holá, Ľubica *see* **Di Maio, G.; et al., 99c:54020** *and* **(99a:54002)**
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Junnila, Heikki J. K. (*with* Künzi, Hans-Peter A.) Characterizations of absolute $F_{\sigma\delta}$-sets. (English summary) **99b:54040**
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54E45 Compact (locally compact) metric spaces

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— *see also* **Pérez-Peñalver, M. J., 99m:54004**
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Karthikeyan, C. Bicompletion of quasi-bitopological near-rings and quasi-bitopological N-groups. (English summary)
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— (*with* Mukherjee, M. N.) Bitopological δ-cluster sets and some applications. (English summary)
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— On a decomposition of pairwise continuity. (English summary)
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— (*with* Abd-Allah, A. S.; Nouh, A. A.) Operations and its applications on L-fuzzy bitopological spaces. I. (English summary)
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54E70 Probabilistic metric spaces

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Miheţ, Dorel (*with* Radu, Viorel) A fixed point theorem for mappings with contractive iterate in PM-spaces.
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Schweizer, Berthold The genesis of the notion of distributional chaos. (English summary) **99d:54024**
Stojaković, Mila (*with* Gajić, Ljiljana) Equivalents of the variational principle in fuzzy and probabilistic metric spaces. (English summary) **99j:49029**
Wang, Gui Jun (*with* Li, Xiao-ping) The applications of interval-valued fuzzy numbers and interval-distribution numbers. (English summary) **99d:04010**
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54E99 None of the above, but in this section

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Császár, Á. Cauchy structures and (m-)contiguities. (English summary) **99b:54036**
Dranishnikov, A. N. (*with* Keesling, James; Uspenskii, Vladimir V.) On the Higson corona of uniformly contractible spaces. (English summary) **99k:57049**
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54Fxx Special properties

54F05 Ordered topological spaces, partially ordered spaces [see also 06B30, 06F30]

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Cattaneo, Gianpiero Abstract approximation spaces for rough theories. (*see* **99k:68188**)
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Domnik, Irena Quasi-uniformities generated by an order relation.
El-Saady, K. (*with* Bakeir, M. Y.) Separation axioms in fuzzy topological ordered spaces. (English summary)
Fujii, S. (*with* Nogura, Tsugunori) Characterizations of compact ordinal spaces via continuous selections. (English summary) **99k:54011**
Gruenhage, Gary (*with* Hattori, Yasunao; Ohta, Haruto) Dugundji extenders and retracts on generalized ordered spaces. (English summary) **99i:54016**
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Lawson, Jimmie D. Computation on metric spaces via domain theory. (English summary) **99c:54043**
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54F15 Continua and generalizations

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— (*with* Chávez, M. J.; Márquez, Alberto; Quintero, A.) On the proper planarity of 3-connected generalized Peano continua. (English summary) **99g:54030**
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— (*with* Charatonik, Włodzimierz J.) Monotone-open mappings of rational continua. (English summary) **99m:54021**
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— (*with* Charatonik, Włodzimierz J.) Universality of weakly arc-preserving mappings. (English summary) **99k:54023**
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— (*with* Charatonik, Włodzimierz J.; Illanes, Alejandro) Remarks on unicoherence at subcontinua. (English summary) **99k:54024**
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Hagopian, Charles L. The fixed-point property for deformations of tree-like continua. (English summary) **99b:54046**
Herings, P. Jean-Jacques (*with* Talman, A. J. J.) Intersection theorems with a continuum of intersection points. (English summary) **99d:54016**
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— *see also* **Charatonik, Janusz J.; et al., 99k:54024**
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Macías Alvarez, Sergio A little about homogeneous continua. (Spanish. Spanish summary) (*see* **99i:00016**)
— Aposyndetic properties of symmetric products of continua. (English summary) **99h:54046**
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Talman, A. J. J. *see* **Herings, P. Jean-Jacques, 99d:54016**
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Whittington, Keith A generalization of 2-homogeneous continua being locally connected. (English summary) **99a:54024**
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— Recent results on induced mappings between hyperspaces of continua. (English summary) **99k:54005**
— (*with* Charatonik, Włodzimierz J.) Inducible mappings between hyperspaces. (English summary) **99b:54011**
— (*with* Illanes, Alejandro) Homotopy properties of curves. (English summary) **99k:54027**
— Some questions on the composition factor property for atomic mappings.
— (*with* Charatonik, Włodzimierz J.) Atomicity of mappings. (English summary) **99f:54038**
— (*with* Charatonik, Włodzimierz J.) Questions on induced universal mappings. (English summary) **99i:54013**
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Illanes, Alejandro (*with* Nadler, Sam B., Jr.) ★ Hyperspaces. (English summary) **99m:54006**
— *see also* **Charatonik, Janusz J., 99k:54027**
Kassebaum, James Near homeomorphisms and G-like continua. (English summary) **99b:54068**
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Levin, Michael A. Certain finite-dimensional maps and their application to hyperspaces. (English summary) **99g:54004**
Marsh, M. M. Some generalizations of universal mappings. (English summary) **99d:54027**
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Nadler, Sam B., Jr. *see* **Illanes, Alejandro**, **99m:54006**
Nogura, Tsugunori (*with* Shakhmatov, Dmitriĭ B.) Characterizations of intervals via continuous selections. (English summary) **99d:54012**
Repovš, Dušan D. (*with* Skopenkov, A. B.) On homogeneous compacta in Euclidean space and the classical Hilbert-Smith conjecture. (English summary) **99m:57032**
Shakhmatov, Dmitriĭ B. *see* **Nogura, Tsugunori**, **99d:54012**
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Teleiko, A. Equivariant Hilbert cubes and their functorial representations. (English summary) **99e:57033**
Tominaga, A. Periodic points of small periods of mappings of B-spaces. (English summary) **99g:54041**
Webster, Julian Continuum theory in the digital setting. (English summary) **99c:54027**
Ye, Xiang Dong The dynamics of a sequence of continuous maps and indecomposability. (Chinese. Chinese summary) **99b:54070**
Zhu, Jian Ping[1] *see* **Laflamme, Claude**, **99m:04002**

54F35 Higher-dimensional local connectedness [see also 55Mxx, 55Nxx]

Items with secondary classifications in 54F35

Banakh, T. O. Characterization of spaces admitting a homotopy dense embedding into a Hilbert manifold. (English summary) **99c:57053**
Gutev, Valentin G. Extending of homotopies via selections and extending of selections via homotopies. (English summary) (*see* **99a:54002**)
Kuperberg, Krystyna Bihomogeneity and Menger manifolds. (English summary) **99b:54048**

54F45 Dimension theory [see also 55M10]

Arenas, Francisco García (*with* Puertas, María Luz) A new kind of infinite-dimensional spaces. (English summary) **99k:54025**
Brunet, Bernard Dimension d'Alexandroff d'un espace uniforme. (English summary) [Aleksandrov dimension of a uniform space] **99j:54033**
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— A normal space Z with $\operatorname{ind} Z = 1$ no compactification of which has transfinite dimension. (English summary) **99g:54031**
— A factorization theorem for the transfinite kernel dimension of metrizable spaces. (English summary) **99b:54053**
Chatyrko, V. A. Axiomatics of the dimension D in the class of weakly countable-dimensional compact spaces. (Russian. Russian summary) **99h:54048**
Dranishnikov, A. N. (*with* Dydak, J.) Extension dimension and extension types. **99h:54049**
Dulev, V. A. On infinite-dimensional n-manifolds. (Russian. Russian summary) **99k:54026**
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Fedorchuk, V. V. A differentiable manifold with noncoinciding dimensions for the continuum hypothesis. (Russian. Russian summary) **99e:54025**
Gavasheli, M. Dimension of topological convex structure. (Russian and Georgian summaries)
Joyce, H. A relationship between packing and topological dimensions. (English summary) **99h:54050**
Karasev, A. V. On the inductive dimension of subsets of some nonmetrizable manifolds. (Russian. Russian summary) **99b:54054**
Kulesza, John S. The dimensional of a subset of l_p as p varies. (English summary) **99e:54026**
Levin, Michael A. (*with* Tymchatyn, E. D.) On the dimension of almost n-dimensional spaces. (English summary) **99m:54022**
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Odinokov, A. V. On spaces of transfinite dimension. (Russian. Russian summary) **99f:54043**
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— On the finite-dimensionality of topological products. (English summary) **99b:54055**
Puertas, María Luz *see* **Arenas, Francisco García**, **99k:54025**
Radul, T. Absorbing spaces for C-compacta. (English summary) **99c:54048**
Tsereteli, I. On one question, concerning dimension theory of Tychonoff spaces. (English summary) **99f:54044**
Tymchatyn, E. D. *see* **Levin, Michael A.**, **99m:54022**
Vadachkoriya, A. L. The equality $p\text{-}\operatorname{Ind} X = p\operatorname{Ind}\beta_p X$ for p-normal bitopological spaces. (English and Georgian summaries)
Zambakhidze, L. G. On the addition and decomposition theorems for some dimensional functions. (Russian and Georgian summaries)
— Axiomatic characterizations of the dimension of the separable metrizable spaces. (English summary) **99f:54045**

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Aarts, Jan M. (*with* Fokkink, Robbert J.; Vermeer, Johannes) Coincidence theorems for involutions. (English summary) **99d:55001**
Ageev, S. M. (*with* Repovš, Dušan D.) A unified finite-dimensional selection theorem. (Russian. Russian summary) **99h:54030**
Aroca Hernández-Ros, José Manuel The problems of realizability and invariance of dimension in the works of Flores de Lemus. (Spanish) **99f:54001**
Chaber, J. (*with* Gruenhage, Gary; Pol, Roman) On Souslin sets and embeddings in integer-valued function spaces on ω_1. (English summary) (*see* **99a:54002**)
— (*with* Gruenhage, Gary; Pol, Roman) On Souslin sets and embeddings in integer-valued function spaces on ω_1. (English summary) **99f:54046**
Chigogidze, A. Ch. Cohomological dimension of Tychonov spaces. (English summary) **99f:55003**
Dikranjan, Dikran N. Compactness and connectedness in topological groups. (English summary) **99b:54060**
— Quotients of zero-dimensional precompact abelian groups. (English summary) **99e:54028**
Dougherty, Randall Narrow coverings of ω-ary product spaces. (English summary) **99j:03035**
Edalat, Abbas Domains for computation in mathematics, physics and exact real arithmetic. (English summary) **99m:03091**
Fokkink, Robbert J. *see* **Aarts, Jan M.; et al.**, **99d:55001**
Gruenhage, Gary *see* **Chaber, J.; et al.**, **99f:54046** *and* (**99a:54002**)
Gutev, Valentin G. Extending of homotopies via selections and extending of selections via homotopies. (English summary) (*see* **99a:54002**)
He, Wei[1] (*with* Luo, Mao-kang) Zero-dimensionality in the category of locales. (Chinese. English and Chinese summaries)
Katětov, Miroslav (*with* Simon, Petr) Origins of dimension theory. **99d:01019**
Kawamura, Kazuhiro (*with* Tsuda, Kôichi) Universal spaces for finite-dimensional closed images of locally compact metric spaces. (English summary) **99c:54044**
Koetsier, Teun (*with* van Mill, Jan) General topology, in particular dimension theory, in the Netherlands: the decisive influence of Brouwer's intuitionism. **99e:01021**
Kuperberg, Krystyna Bihomogeneity and Menger manifolds. (English summary) **99b:54048**
Leĭderman, Arkadiĭ Grigor'evich (*with* Levin, Michael A.; Pestov, Vladimir G.) On linear continuous open surjections of the spaces $C_p(X)$. (English summary) (*see* **99a:54002**)
Levin, Michael A. Certain finite-dimensional maps and their application to hyperspaces. (English summary) **99g:54004**
— (*with* Sternfeld, Y.) Atomic maps and the Chogoshvili-Pontrjagin claim. (English summary) **99i:54020**
— *see also* **Leĭderman, Arkadiĭ Grigor'evich; et al.**, (**99a:54002**)
Luo, Mao-kang *see* **He, Wei[1]**
McClure, Mark The Hausdorff dimension of the hyperspace of compact sets. (English summary) **99a:28006**
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Pankov, M. A. Projections of k-dimensional subsets of $\mathbf{R}^n$ onto k-dimensional planes. (English, Russian and Ukrainian summaries) **99g:28011**
Pesin, Yakov B. ★ Dimension theory in dynamical systems. (English summary) **99b:58003**
Pestov, Vladimir G. *see* **Leĭderman, Arkadiĭ Grigor'evich; et al.**, (**99a:54002**)
Pol, Roman *see* **Chaber, J.; et al.**, **99f:54046** *and* (**99a:54002**)
Repovš, Dušan D. (*with* Shchepin, E. V.) A proof of the Hilbert-Smith conjecture for actions by Lipschitz maps. **99c:57066**
— *see also* **Ageev, S. M.**, **99h:54030**
Shakhmatov, Dmitriĭ B. A comparative survey of selected results and open problems concerning topological groups, fields and vector spaces. (English summary) **99m:54027**
Shchepin, E. V. *see* **Repovš, Dušan D.**, **99c:57066**
Simon, Petr *see* **Katětov, Miroslav**, **99d:01019**
Sternfeld, Y. *see* **Levin, Michael A.**, **99i:54020**
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Uspenskiĭ, Vladimir V. A selection theorem for C-spaces. (English summary) **99d:54013**
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54F50 Spaces of dimension ≤ 1; curves, dendrites [see also 26A03]

Charatonik, Janusz J. (*with* Illanes, Alejandro) Homotopy properties of curves. (English summary) **99k:54027**
Haywood, Joel D. A partial characterization of universal images of graphs using decompositions of trees. (English summary) **99j:54034**
Iliadis, S. D. Acknowledgement concerning two papers on rational dimension. Comment on: "Rational spaces and the property of universality" [Fund. Math. **131** (1988), no. 3, 167–184; MR 90a:54097]. **99i:54049**
Illanes, Alejandro *see* **Charatonik, Janusz J.**, **99k:54027**

Items with secondary classifications in 54F50

Bertacchi, Daniela (*with* Costantini, Camillo) Existence of selections and disconnectedness properties for the hyperspace of an ultrametric space. (English summary) **99g:54003**
Cavicchioli, Alberto (*with* Repovš, Dušan D.; Skopenkov, A. B.) Open problems on graphs arising from geometric topology. (English summary) **99d:57002**
Charatonik, Janusz J. (*with* Charatonik, Włodzimierz J.) Monotone-open mappings of rational continua. (English summary) **99m:54021**
— (*with* Charatonik, Włodzimierz J.) Universality of weakly arc-preserving mappings. (English summary) **99k:54023**
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Dubuc, Eduardo J. A note on Cantor sets. (English summary) **99i:26001**
Hosaka, Hiroshi (*with* Kato, Hisao) Continuous maps of trees and nonwandering sets. (English summary) **99c:54058**
Kato, Hisao A note on indecomposability of chaotic continua on surfaces. (English summary) **99c:54047**
— The depth of centres of maps on dendrites. (English summary) **99j:54040**
— *see also* **Hosaka, Hiroshi**, **99c:54058**
Kennedy, Judy A. (*with* Yorke, James A.) The topology of stirred fluids. (English summary) **99b:54047**
Levin, Michael A. (*with* Tymchatyn, E. D.) On the dimension of almost n-dimensional spaces. (English summary) **99m:54022**
Lončar, Ivan Inverse limit of continuous images of arcs. (English and Croatian summaries) **99i:54014**

Minc, Piotr A weakly chainable tree-like continuum without the fixed point property. (English summary) **99e:54024**
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Repovš, Dušan D. *see* **Cavicchioli, Alberto; et al., 99d:57002**
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— *see also* **Levin, Michael A., 99m:54022**
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54F55 Unicoherence, multicoherence

Items with secondary classifications in 54F55

Ageev, S. M. (*with* Bogatyĭ, Semen A.) On the nonhomeomorphicity of the Banach-Mazur compactum to the Hilbert cube. (Russian) **99d:57014**
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Charatonik, Janusz J. (*with* Charatonik, Włodzimierz J.) On mappings with the Eilenberg property. (English summary) **99b:54021**
— (*with* Charatonik, Włodzimierz J.; Illanes, Alejandro) Remarks on unicoherence at subcontinua. (English summary) **99k:54024**
Charatonik, Włodzimierz J. *see* **Charatonik, Janusz J., 99b:54021** *and* **99k:54024**
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54F65 Topological characterizations of particular spaces

Caldas Cueva, Miguel (*with* Dontchev, Julian) On spaces with hereditarily compact α-topologies. (English summary) **99j:54035**
Dontchev, Julian *see* **Caldas Cueva, Miguel, 99j:54035**
Nguyen To Nhu (*with* Sisson, Paul) A rigid space homeomorphic to Hilbert space. (English summary) **99k:54028**
Sisson, Paul *see* **Nguyen To Nhu, 99k:54028**
Tedeschi, Giulio A characterization of the surface of a sphere. (Italian. English and Italian summaries) **99i:54050**

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Bahrampour, Y. *see* **Honari, B., 99m:54008**
Cauty, Robert Solution d'un problème de Radul sur les ensembles absorbants. (Russian summary) [Solution of a problem of Radul on absorbing sets]
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) α-scattered spaces. II. (English summary)
Fujii, S. (*with* Nogura, Tsugunori) Characterizations of compact ordinal spaces via continuous selections. (English summary) **99k:54011**
Ganster, Maximilian *see* **Dontchev, Julian; et al.**
Hansell, R. W. Nonseparable analytic metric spaces and quotient maps. (English summary) **99b:54058**
Honari, B. (*with* Bahrampour, Y.) Cut-point spaces. (English summary) **99m:54008**
Kawamura, Kazuhiro (*with* Tsuda, Kôichi) Universal spaces for finite-dimensional closed images of locally compact metric spaces. (English summary) **99c:54044**
Kennedy, G. J. (*with* McCartan, S. D.) Submaximality and supraconnectedness are complementary topological invariants. (English summary) **99b:54003**
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McCartan, S. D. *see* **Kennedy, G. J., 99b:54003**
Moiseev, E. V. Characterization of Hilbert cubes in terms of M-structure. (Russian. Russian summary) **99b:54049**
Nogura, Tsugunori *see* **Fujii, S., 99k:54011**
Prajs, Janusz R. On complete metric spaces containing the Sierpiński curve. (English summary) **99b:54050**
Rose, David Alon *see* **Dontchev, Julian; et al.**
Shi, Wei-Xue Extensions of perfect GO-spaces and σ-discrete dense sets. (English summary) **99c:54045**
Tsuda, Kôichi *see* **Kawamura, Kazuhiro, 99c:54044**
Uspenskii, Vladimir V. A selection theorem for C-spaces. (English summary) **99d:54013**

54F99 None of the above, but in this section

Items with secondary classifications in 54F99

Arkhangel'skiĭ, A. V. (*with* Buzyakova, Raushan Z.) Convergence in compacta and linear Lindelöfness. (English summary) **99c:54034**
Buzyakova, Raushan Z. *see* **Arkhangel'skiĭ, A. V., 99c:54034**
Koshcheev, V. A. On partitions of compact spaces that admit T-systems of complex functions. (Russian. Russian summary) **99e:54005**

54Gxx Peculiar spaces

54G05 Extremally disconnected spaces, F-spaces, etc.

Arenas, Francisco García (*with* Dontchev, Julian; Ganster, Maximilian) On some weaker forms of Alexandroff spaces. (English and Arabic summaries) **99b:54056**
Benyamini, Yoav Applications of the universal surjectivity of the Cantor set. **99m:54024**
Dontchev, Julian Between $\mathscr{A}$- and $\mathscr{B}$-sets. (English summary)
— (*with* Rose, David Alon) Extremal disconnectedness modulo dual filtrations. (English summary) **99b:54057**
— *see also* **Arenas, Francisco García; et al., 99b:54056**
Ganster, Maximilian *see* **Arenas, Francisco García; et al., 99b:54056**
Kubiak, Tomasz (*with* de Prada Vicente, María Angeles) Hereditary normality plus extremal disconnectedness and insertion of a continuous function. (English summary) (*see* **99a:54002**)
de Prada Vicente, María Angeles *see* **Kubiak, Tomasz, (99a:54002)**
Rose, David Alon *see* **Dontchev, Julian, 99b:54057**

Items with secondary classifications in 54G05

Alas, O. T. (*with* Protasov, I. V.; Tkachenko, M. G.; Tkachuk, Vladimir V.; Wilson, Richard Gordon; Yashchenko, I. V.) Almost all submaximal groups are paracompact and σ-discrete. (English summary) **99c:54050**
Caldas Cueva, Miguel (*with* Dontchev, Julian) On spaces with hereditarily compact α-topologies. (English summary) **99j:54035**
Dontchev, Julian (*with* Popvassilev, S.; Stavrova, D. N.) On the η-expansion topology for the co-semi-regularization and mildly Hausdorff spaces. (English summary) **99c:54028**
— (*with* Rose, David Alon) On spaces whose nowhere dense subsets are scattered. (English summary) **99h:54052**
— *see also* **Caldas Cueva, Miguel, 99j:54035**
Dow, Alan The regular open algebra of $\beta\mathbf{R} \setminus \mathbf{R}$ is not equal to the completion of $\mathscr{P}(\omega)/\text{fin}$. (English summary) **99c:54008**
— A not too dense subset of $\mathbf{N}^*$. (English summary) **99k:54017**
Gutman, A. E. Locally one-dimensional K-spaces. (Russian) **99b:46004**
Hager, Anthony W. α-cut-complete Boolean algebras. (English summary) **99m:06025**
Lee, Bu Young *see* **Park, Jin Han**
Park, Jin Han (*with* Lee, Bu Young) Fuzzy pairwise extremally disconnected spaces. (English summary)
Petričević, Zlata On S-closed and extremally disconnected fuzzy topological spaces. (English summary)
Popvassilev, S. *see* **Dontchev, Julian; et al., 99c:54028**
Protasov, I. V. *see* **Alas, O. T.; et al., 99c:54050**
Rose, David Alon *see* **Dontchev, Julian, 99h:54052**
Stavrova, D. N. *see* **Dontchev, Julian; et al., 99c:54028**
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Tkachuk, Vladimir V. *see* **Alas, O. T.; et al., 99c:54050**
Wilson, Richard Gordon *see* **Alas, O. T.; et al., 99c:54050**
Yashchenko, I. V. *see* **Alas, O. T.; et al., 99c:54050**

54G10 P-spaces

Items with secondary classifications in 54G10

Arenas, Francisco García (*with* Dontchev, Julian; Ganster, Maximilian) On some weaker forms of Alexandroff spaces. (English and Arabic summaries) **99b:54056**
Dontchev, Julian *see* **Arenas, Francisco García; et al., 99b:54056**
Ganster, Maximilian *see* **Arenas, Francisco García; et al., 99b:54056**
Kundu, Subiman (*with* Raha, A. B.) Addendum: "The bounded-open topology and its relatives" [Rend. Istit. Mat. Univ. Trieste **27** (1995), no. 1-2, 61–77; MR 98a:54011]. (English summary)
Raha, A. B. *see* **Kundu, Subiman**

54G12 Scattered spaces

Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) α-scattered spaces. II. (English summary)
— (*with* Rose, David Alon) On spaces whose nowhere dense subsets are scattered. (English summary) **99h:54052**
Ganster, Maximilian *see* **Dontchev, Julian; et al.**
Martínez, Juan Carlos On cardinal sequences of scattered spaces. (English summary) **99j:54036**
Rose, David Alon *see* **Dontchev, Julian, 99h:54052**

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Bell, Murray G. On character and chain conditions in images of products. (English summary) **99h:54036**
Costantini, Camillo (*with* Watson, W. Stephen) On the dissonance of some metrizable spaces. (English summary) **99b:54012**
Watson, W. Stephen *see* **Costantini, Camillo, 99b:54012**

54G15 Pathological spaces

Winkler, Reinhard A simple Hausdorff space which is Lindelöf, first countable, CCC but not separable. (English summary) **99m:54025**

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Charalambous, M. G. On transfinite inductive dimension and deficiency modulo a class $\mathscr{P}$. (English summary) **99b:54052**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) α-scattered spaces. II. (English summary)
Ganster, Maximilian *see* **Dontchev, Julian; et al.**
Nguyen To Nhu (*with* Sisson, Paul) A rigid space homeomorphic to Hilbert space. (English summary) **99k:54028**
Rose, David Alon *see* **Dontchev, Julian; et al.**
Sisson, Paul *see* **Nguyen To Nhu, 99k:54028**
Tkachuk, Vladimir V. When do connected spaces have nice connected preimages? (English summary) **99a:54015**

54G20 Counterexamples

Pareek, C. M. Spaces in which disjoint open sets have disjoint closures. (English summary) **99m:54026**

Pyrih, Pavel A space where disjoint open sets have disjoint closures. (English summary)

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Bennett, Harold (*with* Lutzer, David) Off-diagonal metrization theorems. (English summary) **99i:54043**
Brandsma, Henno (*with* van Mill, Jan) A compact HL-space need not have a monolithic hyperspace. (English summary) **99a:54007**
Charalambous, M. G. On transfinite inductive dimension and deficiency modulo a class $\mathscr{P}$. (English summary) **99b:54052**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) α-scattered spaces. II. (English summary)
Ganster, Maximilian *see* **Dontchev, Julian; et al.**
Gruenhage, Gary (*with* Kulesza, John S.; Le Donne, Attilio) Connectifications of metrizable spaces. (English summary) **99a:54014**
Gutman, A. E. Locally one-dimensional K-spaces. (Russian) **99b:46004**
van Hartskamp, Michael (*with* van Mill, Jan) Normal spaces and fixed points of Čech-Stone extensions. (English summary) **99c:54062**
Kaniewski, J. (*with* Piotrowski, Zbigniew; Rose, David Alon) Ideal Banach category theorems. (English summary) **99k:54021**
Kulesza, John S. The dimensional of a subset of l_p as p varies. (English summary) **99e:54026**
— *see also* **Gruenhage, Gary; et al., 99a:54014**
Kuperberg, Krystyna Bihomogeneity and Menger manifolds. (English summary) **99b:54048**
LaBerge, Tim A space with normal countable-to-one regular preimages. (English summary) **99j:54015**
Le Donne, Attilio A Hausdorff HS-space which is not regular. (English summary) (*see* **99a:54002**)
— *see also* **Gruenhage, Gary; et al., 99a:54014**
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Rose, David Alon *see* **Kaniewski, J.; et al., 99k:54021** *and* **Dontchev, Julian; et al.**
Shi, Wei-Xue A non-metrizable compact linearly ordered topological space, every subspace of which has a σ-minimal base. (English summary) **99m:54020**
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54G99 None of the above, but in this section

Items with secondary classifications in 54G99

Dijkstra, Jan J. (*with* Kunen, Kenneth; van Mill, Jan) Hausdorff measures and two point set extensions. (English summary) **99e:28010**
Koszmider, Piotr Forcing minimal extensions of Boolean algebras. (English summary) **99m:03099**
Kunen, Kenneth *see* **Dijkstra, Jan J.; et al., 99e:28010**
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54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 04A15, 26A21, 28A05]

Chaber, J. (*with* Gruenhage, Gary; Pol, Roman) On Souslin sets and embeddings in integer-valued function spaces on ω_1. (English summary) **99f:54046**
Choban, Mitrofan M. Functionally countable spaces and Baire functions. (English summary) **99k:54029**
Dontchev, Julian (*with* Ganster, Maximilian; Noiri, Takashi) Unified operation approach of generalized closed sets via topological ideals. (English summary)
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Gruenhage, Gary *see* **Chaber, J.; et al., 99f:54046**
Hansell, R. W. Nonseparable analytic metric spaces and quotient maps. (English summary) **99b:54058**
Hjorth, Greg Sharper changes in topologies. (English summary) **99b:54059**
— (*with* Solecki, Sławomir) Vaught's conjecture and the Glimm-Effros property for Polish transformation groups. (English summary) **99j:54037**
Kharazishvili, A. B. On sections of analytic sets. (Russian. English and Georgian summaries)
Lecomte, Dominique Tests à la Hurewicz dans le plan. (French summary) [Hurewicz-type tests in the plane] **99f:54047**
Noiri, Takashi *see* **Dontchev, Julian; et al.**
Nowik, Andrzej (*with* Scheepers, Marion; Weiss, Tomasz) The algebraic sum of sets of real numbers with strong measure zero sets. (English summary) **99c:54049**
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Scheepers, Marion Strong measure zero sets, filters, and pointwise convergence. **99k:54030**
— *see also* **Nowik, Andrzej; et al., 99c:54049**
Solecki, Sławomir *see* **Hjorth, Greg, 99j:54037**
Stone, A. H. σ-fields of bad Borel sets. (English summary) **99a:54025**
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Yahdi, Mohammed The topological complexity of sets of convex differentiable functions. (English summary) **99d:54017**

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Arkhangel'skiĭ, A. V. (*with* Calbrix, Jean) A characterization of σ-compactness of a cosmic space X by means of subspaces of R^X. (English summary) **99j:54019**
Balcerzak, Marek (*with* Plewik, Szymon) Property (P) and game ideals. (English summary) **99a:04004**
— (*with* Peredko, Joanna) Descriptive character of sets of density and $\mathscr{I}$-density points. (English summary) **99e:28002**
— (*with* Rosłanowski, Andrzej; Shelah, Saharon) Ideals without ccc. (English summary) **99j:03039**
— (*with* Peredko, Joanna) One-to-one Borel selection theorems. (English summary) **99m:28003**
Banakh, T. O. Topological classification of spaces of probability measures on projective spaces. (Russian) **99i:28008**
Basu, Sanjib[1] On sets with property of Baire in certain T_3-topological groups. (English summary) **99d:28002**
Calbrix, Jean *see* **Arkhangel'skiĭ, A. V., 99j:54019**
Cauty, Robert The strong universality property and its applications. (Russian) **99i:57040**
Chaber, J. (*with* Gruenhage, Gary; Pol, Roman) On Souslin sets and embeddings in integer-valued function spaces on ω_1. (English summary) (*see* **99a:54002**)
— (*with* Pol, Roman) Remarks on closed relations and a theorem of Hurewicz. (English summary) **99i:54033**
Das, Pratulananda *see* **Lahiri, B. K.**
Debs, G. (*with* Saint Raymond, J.) Some applications of game determinacy. **99c:90180**
— (*with* Saint Raymond, J.) Compact-covering-properties of finite-to-one mappings. (English summary) **99e:54009**
Dontchev, Julian (*with* Ganster, Maximilian; Rose, David Alon) Ideal resolvability. (English summary) (*see* **99a:54002**)
— Between $\mathscr{S}$- and $\mathscr{B}$-sets. (English summary)
— (*with* Rose, David Alon) Extremal disconnectedness modulo dual filtrations. (English summary) **99b:54057**
— (*with* Ganster, Maximilian) More on sg-compact spaces. (English summary) **99j:54026**
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Glasner, Eli (*with* King, Jonathan L.) A zero-one law for dynamical properties. (English summary) **99d:28039**
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Hjorth, Greg (*with* Kechris, Alexander S.) Borel equivalence relations and classifications of countable models. (English summary) **99m:03073**
Junnila, Heikki J. K. (*with* Künzi, Hans-Peter A.) Characterizations of absolute $F_{\sigma\delta}$-sets. (English summary) **99b:54040**
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Künzi, Hans-Peter A. (*with* Wajch, Eliza) On σ-discrete Borel mappings via quasi-metrics. (English summary) **99i:54036**
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Kwiatkowski, Jan Inverse limit of M-cocycles and applications. (English summary) **99h:28036**
Lahiri, B. K. (*with* Das, Pratulananda) Weakly Borel measures in bitopological spaces. (English summary)
Maurey, Bernard (*with* Tacchi, Jean-Pierre) À propos du théorème de densité de Lebesgue. (English summary) [On Lebesgue's density theorem] **99f:26002**
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54H10 Topological representations of algebraic systems [see also 22–XX]

Hernández, Salvador The dimension of an LCA group in its Bohr topology. (English summary) **99e:54027**
Lee, Dong-Soo[1] (*with* Ryu, Dong Neun) Profinite topological BCK-algebra. (English summary) **99h:54053**
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Coleman, John Patrick[2] Topological equivalents to n-permutability. (English summary) **99c:08012**
McCluskey, A. E. (*with* McMaster, T. B. M.) Representing quasi-orders by embeddability ordering of families of topological spaces. (English summary) **99h:06002**
McMaster, T. B. M. *see* **McCluskey, A. E., 99h:06002**
Pultr, A. (*with* Sichler, J.) Finite commutative monoids of open maps. (French summary) **99g:20115**
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54H11 Topological groups [see also 22A05]

Alas, O. T. (*with* Protasov, I. V.; Tkachenko, M. G.; Tkachuk, Vladimir V.; Wilson, Richard Gordon; Yashchenko, I. V.) Almost all submaximal groups are paracompact and σ-discrete. (English summary) **99c:54050**

Basu, C. K. *see* **Ganguly, Sobhakar; et al., 99e:54029**

Bokalo, B. (*with* Guran, I.) Sequentially compact Hausdorff cancellative semigroup is a topological group. (English and Russian summaries)

Călugăreanu, Grigore Correction: "The $\mathcal{T}$-topology of an abelian group" [Studia Univ. Babeş-Bolyai Math. **40** (1995), no. 4, 1–12; MR 97j:54039]. (French. English summary) **99h:54054**

Chakrabarti, Sadasiv (*with* Gangopadhyay, Amit Kumar) Generalized density functions in a topological group. (English summary)

Chen, Yu Qing Note on two questions of Arhangelskii.

Comfort, W. W. (*with* Morris, Sidney A.; Robbie, Desmond; Svetlichny, Sergey; Tkachenko, M. G.) Suitable sets for topological groups. (English summary) **99g:54033**

Costash, A. I. (*with* Ursul, M. I.) Examples of minimal topological groups. (English, Russian and Moldavian summaries) **99h:54055**

Dikranjan, Dikran N. Compactness and connectedness in topological groups. (English summary) **99b:54060**

— Recent advances in minimal topological groups. (English summary) **99d:54018**

— Quotients of zero-dimensional precompact abelian groups. (English summary) **99e:54028**

Galindo, Jorge (*with* Hernández, Salvador) On a theorem of van Douwen. **99k:54031**

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Ganguly, Sobhakar (*with* Basu, C. K.; Sinha Roy, S.) Existence of an invariant measure on a generalized topological group. (English summary) **99e:54029**

Guran, I. *see* **Bokalo, B.**

Hernández, Constancio (*with* Tkachenko, M. G.) Subgroups of R-factorizable groups. (English summary) **99i:54051**

Hernández, Salvador *see* **Galindo, Jorge, 99k:54031**

Itzkowitz, Gerald L. Pseudocompactness, measurability, and category in compact groups. (English summary) **99b:54061**

— Cardinal numbers associated with dense pseudocompact, countably compact, and ω-bounded subgroups. (English summary) **99b:54062**

Morris, Sidney A. (*with* Pestov, Vladimir G.) A topological generalization of the Higman-Neumann-Neumann theorem. (English summary) **99b:54063**

— *see also* **Comfort, W. W.; et al., 99g:54033**

Pestov, Vladimir G. *see* **Morris, Sidney A., 99b:54063**

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Shakhmatov, Dmitriĭ B. A comparative survey of selected results and open problems concerning topological groups, fields and vector spaces. (English summary) **99m:54027**

Shibakov, A. Sequential topological groups of any sequential order under CH. (English summary) **99c:54051**

Sinha Roy, S. *see* **Ganguly, Sobhakar; et al., 99e:54029**

Svetlichny, Sergey *see* **Comfort, W. W.; et al., 99g:54033**

Tkachenko, M. G. Introduction to topological groups. (English summary) **99b:54064**

— (*with* Villegas-Silva, Luis M.) Refining connected topological group topologies on abelian torsion groups. (English summary) **99c:54052**

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Tkachuk, Vladimir V. *see* **Alas, O. T.; et al., 99c:54050**

Tomita, Artur Hideyuki On infinite products of countably compact groups. (English summary) **99b:54065**

— On sequentially compact both-sides cancellative semigroups with sequentially continuous addition. (English summary) **99h:54056**

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Widman, Jack Topological groups in which every dense subgroup has a convergent sequence. (English summary) **99e:54030**

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Aarts, Jan M. (*with* Fokkink, Robbert J.) Fixed points of the bucket handle. **99b:54071**

Ageev, S. M. (*with* Bogatyĭ, Semen A.; Repovš, Dušan D.; Fabel, Paul) Extensors of noncompact Lie groups. (Russian)

Bogatyĭ, Semen A. *see* **Ageev, S. M.; et al.**

Bordbar, B. (*with* Pym, John) The weakly almost periodic compactification of a direct sum of finite groups. (English summary) **99g:22003**

Breckner, Brigitte Inductively closed families in semigroups. (Romanian summary) **99c:22003**

Cauty, Robert Espaces de Maltsev compacts qui ne sont pas des rétractes de groupes compacts. (English summary) [Compact Mal'tsev spaces that are not retracts of compact groups] **99c:55011**

Comfort, W. W. (*with* Soundararajan, T.; Trigos-Arrieta, F. Javier) Determining a weakly locally compact group topology by its system of closed subgroups. (English summary) **99d:22002**

— (*with* Gladdines, Helma; van Mill, Jan) Proper pseudocompact subgroups of pseudocompact abelian groups. (English summary) **99g:22005**

— (*with* Remus, Dieter) Long chains of topological group topologies—a continuation. (English summary) **99a:22002**

— (*with* van Mill, Jan) How many ω-bounded subgroups? (English summary) **99d:22003**

Dikranjan, Dikran N. Chains of pseudocompact group topologies. (English summary) **99a:22003**

— (*with* Uspenskii, Vladimir V.) Categorically compact topological groups. (English summary) **99c:22001**

Fabel, Paul *see* **Ageev, S. M.; et al.**

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Galindo, Jorge (*with* Hernández, Salvador) On a theorem of van Douwen. (English summary) **99a:22004**

— (*with* Hernández, Salvador) Transmission of continuity to the Bohr topology. (English summary) **99b:22006**

Gartside, P. M. Nonstratifiability of topological vector spaces. (English summary) **99b:46015**

Gladdines, Helma *see* **Comfort, W. W.; et al., 99g:22005**

Grekas, S. (*with* Mercourakis, S.) On the measure-theoretic structure of compact groups. (English summary) **99b:22007**

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Hofmann, Karl H. (*with* Morris, Sidney A.; Nickolas, Peter; Pestov, Vladimir G.) Small large subgroups of a topological group. (English summary) **99a:22005**

Körtesi, Péter About some separation axioms in semitopological inverse semigroups. (English summary) **99b:22003**

Maličký, Peter Greatest common subgroup and smallest common supergroup of two finite groups and related metrics on a system of finite groups. (English summary) **99e:20032**

Mercourakis, S. *see* **Grekas, S., 99b:22007**

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Moran, Alan Minimal normal systems of compact right topological groups. (English summary) **99e:22003**

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Pestov, Vladimir G. (*with* Shakhmatov, Dmitriĭ B.) A relatively free topological group that is not varietal free. (English summary) **99d:22004**

— *see also* **Hofmann, Karl H.; et al., 99a:22005**

Piotrowski, Zbigniew Separate and joint continuity in Baire groups. (English summary) **99k:22002**

Protasov, I. V. On the theory of decomposable groups. (Russian. English summary) **99a:22008**

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Repovš, Dušan D. (*with* Shchepin, E. V.) A proof of the Hilbert-Smith conjecture for actions by Lipschitz maps. **99c:57066**

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Robbie, Desmond (*with* Svetlichny, Sergey) Wallace semigroups and topological loops. (English summary) **99e:22007**

Sanchis, Manuel Continuous functions on locally pseudocompact groups. (English summary) **99d:22006**

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Stevens, T. Christine Nonproduct group topologies for $\mathbf{R}^n$. (English summary) **99e:22004**

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Tatsuuma, Nobuhiko (*with* Shimomura, Hiroaki; Hirai, Takeshi) On group topologies and unitary representations of inductive limits of topological groups and the case of the group of diffeomorphisms. **99k:22003**

Tkachenko, M. G. (*with* Villegas-Silva, Luis M.) Refining connected topological group topologies on abelian torsion-free groups. (English summary) **99b:22002**

Tomita, Artur Hideyuki On the square of Wallace semigroups and topological free abelian groups. (English summary) **99k:22007**

— (*with* Trigos-Arrieta, F. Javier) Suitable sets in products of topological groups and in groups equipped with the Bohr topology. (English summary) **99m:22002**

Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 99d:22002** *and* **Tomita, Artur Hideyuki, 99m:22002**

Umar, Abdullahi Enumeration of certain finite semigroups of transformations. (English summary) **99f:20101**

Uspenskii, Vladimir V. *see* **Dikranjan, Dikran N., 99c:22001** *and* **Special Issue: Topological groups, 99a:22001**

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54H12 Topological lattices, etc. [see also 06B30, 06F30]

Gao, Xi Kan *see* **Li, Qing Guo**

Jun, Young Bae (*with* Xin, Xiao Long; Lee, Dong-Soo[1]) On topological BCI-algebras. (English summary)

Lee, Dong-Soo[1] *see* **Jun, Young Bae; et al.**

Li, Qing Guo (*with* Gao, Xi Kan) The R_0 and R_1 separation axioms in topological De Morgan algebras. (Chinese. English and Chinese summaries)

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Xuan, Li Xin Equivalent conditions for the N-derived element operation in a topological molecular lattice to be union-preserving. (Chinese. English and Chinese summaries)

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Gherman, Rodica *see* **Kessler, Peter**

Kessler, Peter Convergence in topological fuzzy lattices. (English summary)

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Liu, Ying Ming *see* **Xu, Xiao Quan**
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Xu, Xiao Quan (*with* Liu, Ying Ming) The upper topology and the interval topology on a complete lattice. (Chinese. Chinese summary)

54H13 Topological fields, rings, etc. [see also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80.}

Koshiba, Yôichi On compact open topology in the case of local fields. **99f:54048**
Magill, Kenneth D., Jr. The one-sided ideals of nearrings of continuous functions. **99d:54019**
Mangalambal, N. R. The α-remote points in βX for a discrete topological field X. (English summary) **99h:54057**

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Kontolatou, Angeliki (*with* Stabakis, John) Some remarks on topologies induced by a G-valuation in a field. **99a:12011**
Shakhmatov, Dmitriĭ B. A comparative survey of selected results and open problems concerning topological groups, fields and vector spaces. (English summary) **99m:54027**
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54H15 Transformation groups and semigroups [see also 20M20, 22–XX, 57Sxx]

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— (*with* Chebbi, Souhail; Florenzano, Monique; Llinares Ciscar, Juan Vicente) Abstract convexity and fixed points. (English summary) **99c:47089**
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— (*with* Charatonik, Włodzimierz J.) Questions on induced universal mappings. (English summary) **99i:54013**
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— Generalized Leray-Schauder principles for condensing admissible multifunctions. (English summary) **99j:47094**
— Fixed points in homeomorphically convex sets. (English summary) **99k:47148**
— Coincidence theorems for the better admissible multimaps and their applications. **99b:47079**
— (*with* Kim, Hoonjoo) Generalizations of the KKM type theorems on generalized convex spaces. (English summary) **99b:54028**
— Remarks on fixed points of lower semicontinuous maps. (English summary) **99a:47085**
— Fixed points of σ-selectionable multimaps. (English summary) **99b:47087**
— Remarks on some coincidence theorems. (English summary) **99m:47067**
— *see also* **Lin, Lai-Jiu**, **99f:90182**
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Shimizu, Tomoo (*with* Takahashi, Wataru) Fixed points of multivalued mappings in certain convex metric spaces. **99c:47094**
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— Generalized H-KKM type theorems and their applications.
— Minimax inequalities based on the I-G-H-KKM mappings.
— R-KKM theorems and their applications to minimax inequalities. (English summary)
— R-KKM selections applied to minimax inequalities. (English summary)
— Intersection theorems on generalized H-convex sections. (English summary)

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— *see also* **Zhang, Hong Bo**, **99d:49026** *and* **Xu, Yuguang[1]**, **99h:49009**
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Workshop on Fixed Point Theory ★ Proceedings of Workshop on Fixed Point Theory. **99g:00048**
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54H99 None of the above, but in this section

Goswami, K. C. Some application of density topology in analysis and topology. (English summary)
Li, Qing Guo Two necessary and sufficient conditions for compactness of topological De Morgan algebras. (Chinese. English and Chinese summaries)
Rose, David Alon Local ideals in topological spaces. (English summary) **99h:54066**

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Bae, Jaegug A compactness result for a set of subset-sum-distinct sequences. (English summary) **99k:11018**
Bălan, Virgil C. Topologies associées a une horistologie. (French summary) [Topologies associated with a horistology]
Chae, Younki (*with* Jeong, Won Kyun) Sandwich semigroups of closed functions. (English summary) **99i:54017**
Charatonik, Janusz J. (*with* Illanes, Alejandro) Homotopy properties of curves. (English summary) **99k:54027**
Filippov, V. V. On the Dirichlet problem for a second-order vector ordinary differential equation. (Russian. Russian summary) **99j:34022**
Goldstern, Martin Most algebras have the interpolation property. (English summary) **99g:08002**
Hindman, Neil (*with* Strauss, Dona Papert) ★ Algebra in the Stone-Čech compactification. **99j:54001**
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Jurjus, Hermanus Hendrikus ★ The exception proves the rule. (Dutch summary) **99m:03055**
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Teleiko, A. Equivariant Hilbert cubes and their functorial representations. (English summary) **99e:57033**

54J05 Nonstandard topology [see also 03H05]

Brunet, Bernard On the compactification of generalized ordered spaces. (English summary) **99m:54032**
Molchanov, Vladimir A. Nonstandard convergences in spaces of partial mappings. (Russian) **99m:54033**

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Marcus, Nizar The Wallman compactification of frames. (English summary) **99i:54024**

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55–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aleksandrov, Pavel Sergeevich ★ Combinatorial topology. Vol. 1, 2 and 3. (English summary) **99g:55001**

Items with secondary classifications in 55–01

(Cieciura, Grzegorz) *see* **Jänich, Klaus, 99a:54001**
(Czarnocka-Cieciura, Dorota) *see* **Jänich, Klaus, 99a:54001**
Jänich, Klaus ★ Topologia. (Polish. Polish summary) [Topology] **99a:54001**

55–02 Research exposition (monographs, survey articles)

Crabb, M. C. (*with* James, Ioan Mackenzie) ★ Fibrewise homotopy theory. (English summary) **99k:55001**
James, Ioan Mackenzie *see* **Crabb, M. C., 99k:55001**
(Miller, Haynes) *see* **Rudyak, Yu. B., 99f:55001**
Rudyak, Yu. B. ★ On Thom spectra, orientability, and cobordism. **99f:55001**

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Problems:
Algebraic topology Northwestern 1997 Algebraic Topology Conference—problems. (*see* **99c:55001**)

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Benson, David John ★ Representations and cohomology. II. (English summary) **99f:20001b**
van den Dries, Lou ★ Tame topology and o-minimal structures. (English summary) **99j:03001**
Jonckheere, Edmond A. ★ Algebraic and differential topology of robust stability. **99d:93001**
Shen, Wen Huai Recent advances in homotopy epimorphisms and homotopy monomorphisms. **99i:55010**

55–03 Historical (must also be assigned at least one classification number from Section 01)

James, Ioan Mackenzie Reflections of the history of topology. (English summary)

Items with secondary classifications in 55–03

(Alt, Franz L.) *see* **Menger, Karl, 99j:01028**
Aroca Hernández-Ros, José Manuel The problems of realizability and invariance of dimension in the works of Flores de Lemus. (Spanish) **99f:54001**
Atiyah, Michael F. The work of Serge Novikov [MR 54 #2383]. (*see* **99b:00010**)
— *see also* **Cartan, Henri, (99b:00010)**
Cartan, Henri L'œuvre de Michael F. Atiyah [MR 38 #1692]. (French summary) [The work of Michael F. Atiyah] (*see* **99b:00010**)
(Dawson, J. W., Jr.) *see* **Menger, Karl, 99j:01028**
(Debreu, Gerard) *see* **Menger, Karl, 99j:01028**
(Dierker, E.) *see* **Menger, Karl, 99j:01028**
Eckmann, Beno Naissance des fibrés et homotopie. (English and French summaries) [The origins of fiber spaces and homotopy] **99h:01030**
(Engelking, R.) *see* **Menger, Karl, 99j:01028**
(Flores, Antonio I.) *see* **Padilla Gálvez, Jesús, 99f:54002**
(Hildenbrand, W.) *see* **Menger, Karl, 99j:01028**
Hopf, H. The work of R. Thom [MR 22 #5558]. (*see* **99b:00010**)
Houzel, Christian Historie de la théorie des faisceaux. (English and French summaries) [History of the theory of sheaves] **99i:01027**
McCleary, John An appreciation of the work of Jim Stasheff. **99i:01036**
Menger, Karl ★ Ergebnisse eines mathematischen Kolloquiums. (German) [Results of a mathematical colloquium] **99j:01028**
(Novikov, Sergeĭ Petrovich) *see* **Atiyah, Michael F., (99b:00010)**
Padilla Gálvez, Jesús The advances in topology achieved by Antonio I. Flores in the Mathematisches Kolloquium. (Spanish) **99f:54002**
(Sigmund, Karl) *see* **Menger, Karl, 99j:01028**
(Stasheff, James D.) *see* **McCleary, John, 99i:01036**
Thom, Réné Autobiography of René Thom. (*see* **99b:00010**)
— *see also* **Hopf, H., (99b:00010)**

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Menger, Karl *see* **Menger, Karl, 99j:01028**
Thom, René *see* **Thom, Réné, (99b:00010)**

55–04 Explicit machine computation and programs (not the theory of computation or programming)

Ellis, Graham J. On the computation of certain homotopical-functors. (English summary) **99f:55002**

Items with secondary classifications in 55–04

Dey, Tamal K. (*with* Guha, Sumanta) Computing homology groups of simplicial complexes in $\mathbf{R}^3$. (English summary) **99c:52021**
Guha, Sumanta *see* **Dey, Tamal K., 99c:52021**
Kaczyński, Tomasz (*with* Mrozek, Marian; Ślusarek, M.) Homology computation by reduction of chain complexes. (English summary) **99a:18001**
Mrozek, Marian *see* **Kaczyński, Tomasz; et al., 99a:18001**
Ślusarek, M. *see* **Kaczyński, Tomasz; et al., 99a:18001**

55–06 Proceedings, conferences, collections, etc.

(Dwyer, William G.) *see* **Stable and unstable homotopy, 99a:55001**
(Halperin, Steven) *see* **Stable and unstable homotopy, 99a:55001**
(Kane, Richard) *see* **Stable and unstable homotopy, 99a:55001**
(Kochman, Stanley O.) *see* **Stable and unstable homotopy, 99a:55001**
(Mahowald, Mark E.) *see* **Stable and unstable homotopy, 99a:55001** *and* **Homotopy theory via algebraic geometry and group representations, 99c:55001**
(Priddy, Stewart) *see* **Homotopy theory via algebraic geometry and group representations, 99c:55001**
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(Selick, Paul S.) *see* **Stable and unstable homotopy, 99a:55001**

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Conference:
Current Trends in Algebraic Topology with Applications to Algebraic Geometry and Physics ★ Homotopy theory via algebraic geometry and group representations. **99c:55001**
Contemporary Mathematics ★ Homotopy theory via algebraic geometry and group representations. **99c:55001**
Evanston, IL ★ Homotopy theory via algebraic geometry and group representations. **99c:55001**
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Meeting:
Topology ★ 10th Brazilian Topology Meeting. **99b:55001**
São Carlos ★ 10th Brazilian Topology Meeting. **99b:55001**
Special Year:
Algebraic Topology ★ Homotopy theory via algebraic geometry and group representations. **99c:55001**
Stable and unstable homotopy ★ Stable and unstable homotopy. **99a:55001**
Toronto, ON ★ Stable and unstable homotopy. **99a:55001**
Workshop:
Stable Homotopy Theory ★ Stable and unstable homotopy. **99a:55001**
Unstable and Rational Homotopy Theory ★ Stable and unstable homotopy. **99a:55001**

Items with secondary classifications in 55–06

(McCleary, John) *see* **Higher homotopy structures in topology and mathematical physics, 99g:00041**
(Stasheff, James D.) *see* **Higher homotopy structures in topology and mathematical physics, 99g:00041**

Items listed otherwise than by author

Birthday:
Stasheff, James Dillon ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Conference:
Higher Homotopy Structures in Topology and Mathematical Physics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Contemporary Mathematics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Higher homotopy structures in topology and mathematical physics ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**
Poughkeepsie, NY ★ Higher homotopy structures in topology and mathematical physics. **99g:00041**

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx.}

55M05 Duality

Verdier, Jean-Louis Dualité dans la cohomologie des espaces localement compacts. [Duality in the cohomology of locally compact spaces] (*see* **99f:00041**)

55M10 Dimension theory [see also 54F45]

Chigogidze, A. Ch. Cohomological dimension of Tychonov spaces. (English summary) **99f:55003**

Items with secondary classifications in 55M10

Aarts, Jan M. (*with* Fokkink, Robbert J.; Vermeer, Johannes) Coincidence theorems for involutions. (English summary) **99d:55001**
Aroca Hernández-Ros, José Manuel The problems of realizability and invariance of dimension in the works of Flores de Lemus. (Spanish) **99f:54001**
Čerin, Zvonko On properties of approximate fibrations. II. (English summary) **99i:55026**
Chigogidze, A. Ch. (*with* Zarichnyĭ, M. M.) On absolute extensors modulo a complex. (English summary) **99f:54018**
Dranishnikov, A. N. Dimension theory and large Riemannian manifolds. (English summary) **99i:57055**
Ferry, Steven C. Limits of polyhedra in Gromov-Hausdorff space. (English summary) **99e:57035**
Fokkink, Robbert J. *see* **Aarts, Jan M.; et al., 99d:55001**
Pogoda, Zdzisław (*with* Sokołowski, Leszek M.) Does mathematics distinguish certain dimensions of spaces? II. **99f:57013**

(Shenitzer, Abe) *see* **Pogoda, Zdzisław, 99f:57013**
Sokołowski, Leszek M. *see* **Pogoda, Zdzisław, 99f:57013**
Vermeer, Johannes *see* **Aarts, Jan M.; et al., 99d:55001**
Zarichnyĭ, M. M. *see* **Chigogidze, A. Ch., 99f:54018**

55M15 Absolute neighborhood retracts [see also 54C55]

Karimov, U. Kh. On the approximation of some spaces by polyhedra. (Russian. Tajiki summary) **99m:55001**

Items with secondary classifications in 55M15

Čerin, Zvonko On properties of approximate fibrations. II. (English summary) **99i:55026**
— On properties of approximate fibrations. I. (English summary) **99i:55025**
Mardešić, Sibe Coherent and strong expansions of spaces coincide. (English summary) **99g:55013**

55M20 Fixed points and coincidences [see also 54H25]

Aarts, Jan M. (*with* Fokkink, Robbert J.; Vermeer, Johannes) Coincidence theorems for involutions. (English summary) **99d:55001**
Arenas, Francisco García (*with* Puertas, María Luz) The Jordan curve theorem. (Spanish. English and Spanish summaries)
Baek, Sung-Do *see* **Lee, Seoung Ho, 99b:55003**
Ben-Naoum, Abdou Kouider (*with* Félix, Yves) Lefschetz number and degree of a self-map. (English and French summaries) **99b:55002**
Chen, William Counterexamples to Knaster's conjecture. **99c:55002**
Citterio, Maurizio G. The Reidemeister number as a homotopy equalizer. (English and Italian summaries) **99f:55004**
Fagundes, Pedro Luiz Equivariant Nielsen coincidence theory. (English and Portuguese summaries) **99e:55001**
Félix, Yves *see* **Ben-Naoum, Abdou Kouider, 99b:55002**
Ferrario, Davide Computing Reidemeister classes. (English summary) **99g:55002**
Fokkink, Robbert J. *see* **Aarts, Jan M.; et al., 99d:55001**
Fu, Jun *see* **Liu, Yu Hong**
Gonçalves, Daciberg Lima (*with* Wong, Peter N.-S.) Homogeneous spaces in coincidence theory. (English and Portuguese summaries) **99h:55001**
— Coincidence theory for maps from a complex into a manifold. (English summary) **99j:55001**
Han, Sang-Eon (*with* Lee, Sik) On the admittance of a fixed point free deformation of the space which $\pi_1(X)$ is infinite. (English summary) **99f:55005**
Idzik, Adam (*with* Miklaszewski, Dariusz) Borsuk-Ulam type theorems. I. (English summary) **99i:55001**
Jiang, Boju Bounds for fixed points on surfaces. **99h:55002**
Komiya, Katsuhiro Equivariant maps between representation spheres of a torus. **99j:55002**
Laitadze, G. L. On Lefshetz fixed point theorem for multi-valued maps. (Russian and Georgian summaries)
Lee, Seoung Ho (*with* Baek, Sung-Do) Remarks on the Reidemeister numbers for coincidences. (English summary) **99b:55003**
Lee, Sik *see* **Han, Sang-Eon, 99f:55005**
Liu, Yu Hong (*with* Fu, Jun) Properties of points on a sphere under continuous mappings. (Chinese. English and Chinese summaries)
Miklaszewski, Dariusz *see* **Idzik, Adam, 99i:55001**
Penteado, Dirceu Fixed points on surface fiber bundles. (English and Portuguese summaries) **99e:55002**
Prabhu, Nagabhushana Fixed points of rotations of n-sphere. (English summary)
Puertas, María Luz *see* **Arenas, Francisco García**
Vermeer, Johannes *see* **Aarts, Jan M.; et al., 99d:55001**
Wagner, Joyce An algorithm for calculating the Nielsen number on surfaces with boundary. (English summary) **99c:55003**
Wong, Peter N.-S. Coincidences of maps into homogeneous spaces. (English summary) **99k:55002**
— *see also* **Gonçalves, Daciberg Lima, 99h:55001**
Xia, Da Feng (*with* Xu, Sen Lin) The Nielsen number of a vector field. (Chinese. English and Chinese summaries) **99m:55002**
Xu, Sen Lin *see* **Xia, Da Feng, 99m:55002**
Yang, Ki-Yeol The minimum theorem for the relative root Nielsen number. (English summary) **99g:55003**

Items with secondary classifications in 55M20

Bader, Ralf A degree theory for set-valued maps with proximally ∞-connected values. **99c:55004**
Baker, Andrew James Right eigenvalues for quaternionic matrices: a topological approach. (English summary) **99k:15030**
Becker, James C. (*with* Schultz, Reinhard E.) Axioms for bundle transfers and traces. **99f:55021**
Crabb, M. C. (*with* James, Ioan Mackenzie) ★ Fibrewise homotopy theory. (English summary) **99k:55001**
Fabel, Paul Self-homeomorphisms of the 2-sphere which fix pointwise a nonseparating continuum. (English summary) **99k:57081**
Fajstrup, Lisbeth A $\mathbb{Z}/2$ descent theorem for the algebraic K-theory of a semisimple real algebra. (English summary) **99d:19002**
Izydorek, Marek Bourgin-Yang type theorem and its application to Z_2-equivariant Hamiltonian systems. (English summary) **99j:58040**
James, Ioan Mackenzie *see* **Crabb, M. C., 99k:55001**
Jiang, Boju (*with* Llibre, Jaume) Minimal sets of periods for torus maps. (English summary) **99j:58159**
Koszul, Jean-Louis Théorèmes de points fixes pour les groupes élémentaires (d'après A. Borel). [Fixed-point theorems for elementary groups (after A. Borel)] (*see* **99f:00040**)
Kryszewski, Wojciech Remarks to the Vietoris theorem.
Le Calvez, Patrice (*with* Yoccoz, Jean-Christophe) Un théorème d'indice pour les homéomorphismes du plan au voisinage d'un point fixe. (English summary) [An index theorem for homeomorphisms of the plane near a fixed point] **99a:58129**
Llibre, Jaume *see* **Jiang, Boju, 99j:58159**
Marsh, M. M. Some generalizations of universal mappings. (English summary) **99d:54027**
Marzantowicz, Wacław Determination of the periodic points of smooth mappings using Lefschetz numbers and their powers. (Russian) **99b:58187**
— A note on the minimal periods of a homeomorphism of compact surface. (English summary) **99j:58160**
Prieto de Castro, Carlos A sum formula for stable equivariant maps. **99d:55005**
Schultz, Reinhard E. *see* **Becker, James C., 99f:55021**
Yoccoz, Jean-Christophe *see* **Le Calvez, Patrice, 99a:58129**

55M25 Degree, winding number

Adrian, Duma (*with* Alexandru, Leonte) A surjective topological degree for discontinuous functions.
Alexandru, Leonte *see* **Adrian, Duma**
Bader, Ralf A degree theory for set-valued maps with proximally ∞-connected values. **99c:55004**
Cheng, Qing-Ming (*with* Machigashira, Yoshiroh; Sugioka, Yoshihiro) The relation between degree and dilatation of continuous maps. **99g:55004**
Machigashira, Yoshiroh *see* **Cheng, Qing-Ming; et al., 99g:55004**
Sugioka, Yoshihiro *see* **Cheng, Qing-Ming; et al., 99g:55004**

Items with secondary classifications in 55M25

Aizicovici, Sergiu (*with* Chen, Yu Qing) Note on the topological degree of the subdifferential of a lower semi-continuous convex function. (English summary) **99a:47090**
Balanov, Z. I. Equivariant Hopf theorem. **99f:55020**
Birman, Joan S. (*with* Trapp, Rolland) Braided chord diagrams. (English summary) **99c:57010**
Chen, Yu Qing *see* **Aizicovici, Sergiu, 99a:47090**
Cima, Anna (*with* Gasull, Armengol; Torregrosa, Joan) Index and multiplicity. (Spanish. Spanish summary) **99j:58025**
— (*with* Gasull, Armengol; Torregrosa, Joan) On the relation between index and multiplicity. (English summary) **99j:58024**
— (*with* Mañosas, Francesc; Villadelprat, Jordi) A Poincaré-Hopf theorem for noncompact manifolds. (English summary) **99b:57055**
Cristea, Mihai Open discrete mappings in space. **99k:58020**
Fenske, Christian C. An index for periodic orbits of local semidynamical systems. (English summary) **99b:54066**
Gasull, Armengol *see* **Cima, Anna; et al., 99j:58024** *and* **99j:58025**
Le Calvez, Patrice Une propriété dynamique des homéomorphismes du plan au voisinage d'un point fixe d'indice > 1. (English and French summaries) [A dynamical property of homeomorphisms of the plane in the neighborhood of a fixed point of index > 1] **99g:54039**
Llibre, Jaume (*with* Villadelprat, Jordi) A Poincaré index formula for surfaces with boundary. (English summary) **99a:57025**
Mañosas, Francesc *see* **Cima, Anna; et al., 99b:57055**
Torregrosa, Joan *see* **Cima, Anna; et al., 99j:58024** *and* **99j:58025**
Trapp, Rolland *see* **Birman, Joan S., 99c:57010**
Villadelprat, Jordi *see* **Llibre, Jaume, 99a:57025** *and* **Cima, Anna; et al., 99b:57055**

55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space

Ayala, R. (*with* Quintero, A.) On the Ganea strong category in proper homotopy. (English summary) **99f:55006**
Cohen, Frederick R. On the Lusternik-Schnirelmann category of an iterated loop space. **99g:55005**
Cornea, Octavian Some properties of the relative Lusternik-Schnirelmann category. (English summary) **99e:55003**
— (*with* Félix, Yves; Lemaire, Jean-Michel) Rational category and cone length of Poincaré complexes. (English summary) **99a:55002**
Félix, Yves (*with* Halperin, Steven; Lemaire, Jean-Michel) The rational LS category of products and of Poincaré duality complexes. (English summary) **99a:55003**
— *see also* **Cornea, Octavian; et al., 99a:55002**
Halperin, Steven *see* **Félix, Yves; et al., 99a:55003**
Huang, Bao Jun Complete Riemannian manifolds have a closed cut space. (Chinese. English and Chinese summaries)
Iwase, Norio Ganea's conjecture on Lusternik-Schnirelmann category. (English summary) **99j:55003**
Lemaire, Jean-Michel *see* **Cornea, Octavian; et al., 99a:55002** *and* **Félix, Yves; et al., 99a:55003**
Quintero, A. *see* **Ayala, R., 99f:55006**
Rudyak, Yu. B. On category weight and its applications. (English summary) **99f:55007**
Saneblidze, S. Lusternik-Schnirelmann category of a weak formal space. (English summary)

Items with secondary classifications in 55M30

Aarts, Jan M. (*with* Fokkink, Robbert J.; Vermeer, Johannes) Coincidence theorems for involutions. (English summary) **99d:55001**
Cornea, Octavian Cone-decompositions and degenerate critical points. **99j:57036**
Doeraene, Jean-Paul Homotopy pull backs, homotopy push outs and joins. (English summary) **99a:55007**
Fokkink, Robbert J. *see* **Aarts, Jan M.; et al., 99d:55001**
Grodal, Jesper The transcendence degree of the mod p cohomology of finite Postnikov systems. (English summary) **99g:55023**
Kurazono, Ichiji (*with* Matumoto, Takao) Classification of closed oriented 4-manifolds modulo connected sum with simply connected manifolds. (English summary) **99f:57023**

Marcum, Howard J. Cone length of the exterior join. **99k:55012**
Matumoto, Takao *see* **Kurazono, Ichiji, 99f:57023**
Mimura, Mamoru (*with* Ōshima, Hideaki) Self homotopy groups of Hopf spaces with at most three cells. (English summary) **99j:55007**
Ōshima, Hideaki *see* **Mimura, Mamoru, 99j:55007**
Vermeer, Johannes *see* **Aarts, Jan M.; et al., 99d:55001**

55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

Jaworowski, Jan The index of involutions in lens spaces. (English and French summaries) **99m:55003**
Tripathi, S. P. Twisted actions of cyclic groups. (English summary) **99h:55003**

Items with secondary classifications in 55M35

Balanov, Z. I. Equivariant Hopf theorem. **99f:55020**
Fel'shtyn, A. L. (*with* Hill, Richard Michael) Comparisons for the Reidemeister and Nielsen numbers. (Russian) **99m:57021**
Hill, Richard Michael *see* **Fel'shtyn, A. L., 99m:57021**
Intermont, Michele An equivariant smash spectral sequence and an unstable box product. (English summary) **99j:55014**
Laitinen, Erkki (*with* Pawałowski, Krzysztof) Smith equivalence of representations for finite perfect groups. (English summary) **99b:57070**
Pawałowski, Krzysztof *see* **Laitinen, Erkki, 99b:57070**

55M99 None of the above, but in this section

El-Kholy, E. M. (*with* Shahin, R. M.) Cellular folding. (English summary) **99k:55003**
Lindström, Bernt A topological problem. (Swedish. English summary)
Shahin, R. M. *see* **El-Kholy, E. M., 99k:55003**

Items with secondary classifications in 55M99

Charatonik, Janusz J. (*with* Illanes, Alejandro) Homotopy properties of curves. (English summary) **99k:54027**
Illanes, Alejandro *see* **Charatonik, Janusz J., 99k:54027**
Karimov, A. Z. Generality of the position on the set of all quadratic topological automorphisms of a finite-dimensional simplex. (Russian. English and Uzbek summaries)

55Nxx Homology and cohomology theories [see also 57Txx]

55N05 Čech types

Carlsson, Gunnar (*with* Pedersen, Erik Kjær) Čech homology and the Novikov conjectures for K- and L-theory. **99e:55004**
Günther, Bernd (*with* Mdzinarishvili, L.) Continuous Alexander-Spanier cohomology classifies principal bundles with abelian structure group. (English summary) (*see* **99a:54002**)
Lee, Dae-Woong *see* **Lee, Hong-Jae, 99g:55006**
Lee, Hong-Jae (*with* Lee, Dae-Woong) Pro-torsion products and Čech homology groups. (English summary) **99g:55006**
Lisitsa, Yu. T. On the compact $\varinjlim$-functor in the category of compact groups. (English summary) **99g:55007**
Mdzinarishvili, L. *see* **Günther, Bernd, (99a:54002)**
Ormotsadze, R. On isomorphness of homology groups of a space and its extensions. (Russian and Georgian summaries)
Pedersen, Erik Kjær *see* **Carlsson, Gunnar, 99e:55004**

Items with secondary classifications in 55N05

Matsumoto, Yukio *see* **Vo Thanh Liem; et al., 99m:57019**
Miyata, Takahisa Uniform Vietoris-Begle theorems. (English summary) **99g:54023**
Szymczak, Andrzej A cup product pairing and time-duality for discrete dynamical systems. (English summary) **99f:58136**
Venema, Gerard A. *see* **Vo Thanh Liem; et al., 99m:57019**
Vo Thanh Liem (*with* Matsumoto, Yukio; Venema, Gerard A.) A homotopy equivalence that is not homotopic to a topological embedding. (English summary) **99m:57019**

55N07 Steenrod-Sitnikov homologies

Lee, Dae-Woong Strictly derived groups and t-step strong homology groups. (English summary) **99f:55008**
Mardešić, Sibe (*with* Prasolov, Andrei V.) On strong homology of compact spaces. (English summary) **99c:55005**
Prasolov, Andrei V. *see* **Mardešić, Sibe, 99c:55005**

Items with secondary classifications in 55N07

Lisitsa, Yu. T. On the compact $\varinjlim$-functor in the category of compact groups. (English summary) **99g:55007**

55N10 Singular theory

El-Ghoul, M. (*with* Mostafa, M. H.) Homology and deformation retract of some real manifolds and their foldings. (English summary) **99c:55006**
Mostafa, M. H. *see* **El-Ghoul, M., 99c:55006**

Items with secondary classifications in 55N10

Cerf, Jean Combinatoire des simplexes sans singularités. I. Le cas différentiable. (English and French summaries) [Combinatorics of simplices without singularities. I. The differentiable case] **99k:57058**
Schochet, Claude L. Correction to: "The UCT, the Milnor sequence, and a canonical decomposition of the Kasparov groups" [K-Theory **10** (1996), no. 1, 49–72; MR 97d:46088]. (English summary) **99d:46095**

55N15 K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

Cartan, Henri Travaux de Karoubi sur la K-théorie. [Works of Karoubi on K-theory] (*see* **99f:00042**)
Minami, Haruo Note on complex K-groups of compact Lie groups with fundamental group of prime order. **99i:55002**
Morisugi, Kaoru Projective elements in K-theory and self maps of ΣCP^{∞}. **99g:55008**

Items with secondary classifications in 55N15

Arouche, Abdelouahab Sur la complétion de la K-théorie équivariante. (English and French summaries) [On the completion of equivariant K-theory] **99a:55004**
Baker, Andrew James Vertex operators in algebraic topology. **99m:17033**
Dwyer, William G. (*with* Mitchell, Stephen A.) On the K-theory spectrum of a ring of algebraic integers. (English summary) **99i:19003**
Hopkins, Michael J. (*with* Ravenel, Douglas C.; Wilson, W. Stephen) Morava Hopf algebras and spaces $K(n)$ equivalent to finite Postnikov systems. (English summary) **99e:55005**
Jakob, Martin A bordism-type description of homology. (English summary) **99e:55006**
Jeanneret, A. (*with* Osse, A.) The K-theory of p-compact groups. (English summary) **99d:55007**
Junod, Bernard (*with* Suter, Ueli) On the vector field problem for product manifolds. (English summary) **99k:57056**
Komiya, Katsuhiro Equivariant maps between representation spheres of a torus. **99j:55002**
Kriz, Igor Morava K-theory of classifying spaces: some calculations. (English summary) **99a:55016**
Lapa de Souza, Maria Luiza L'interprétation de la classe de Maslov dans la K-théorie hermitienne et dans la théorie relative de Chern-Weil. (English summary) [Interpretation of the Maslov class in Hermitian K-theory and in relative Chern-Weil theory] **99g:19004**
Mitchell, Stephen A. *see* **Dwyer, William G., 99i:19003**
Morimoto, Shuma (*with* Nishida, Goro) Elliptic cohomology of classifying spaces of cyclic groups and higher level modular forms. **99f:11055**
Nishida, Goro *see* **Morimoto, Shuma, 99f:11055**
Nishimura, Yasuzo (*with* Yosimura, Zen-ichi) The quasi KO_*-types of weighted mod 4 lens spaces. **99m:55010**
Osse, A. *see* **Jeanneret, A., 99d:55007**
Ravenel, Douglas C. *see* **Hopkins, Michael J.; et al., 99e:55005**
Sankaran, Parameswaran (*with* Zvengrowski, Peter) Stable parallelizability of partially oriented flag manifolds. II. (English summary) **99a:57024**
Suter, Ueli *see* **Junod, Bernard, 99k:57056**
Wilson, W. Stephen *see* **Hopkins, Michael J.; et al., 99e:55005**
Yosimura, Zen-ichi *see* **Nishimura, Yasuzo, 99m:55010**
Zvengrowski, Peter *see* **Sankaran, Parameswaran, 99a:57024**

55N20 Generalized (extraordinary) homology and cohomology theories

Brunetti, Maurizio A new cohomological criterion for the p-nilpotence of groups. (English summary) **99b:55004**
Choi, Younggi Morava K-theory of the double loop spaces of quaternionic Stiefel manifolds. (English summary) **99b:55005**
Davis, James Frederic (*with* Lück, Wolfgang) Spaces over a category and assembly maps in isomorphism conjectures in K- and L-theory. (English summary) **99m:55004**
Devoto, Jorge A. An algebraic description of the elliptic cohomology of classifying spaces. (English summary) **99f:55009**
Hopkins, Michael J. (*with* Ravenel, Douglas C.; Wilson, W. Stephen) Morava Hopf algebras and spaces $K(n)$ equivalent to finite Postnikov systems. (English summary) **99e:55005**
Jakob, Martin A bordism-type description of homology. (English summary) **99e:55006**
Kordzaya, K. Multiplicative elements in Morava K-theory of BZ/p. **99i:55003**
Li, Yongxin Set-valued homology. (English summary) **99m:55005**
Lück, Wolfgang *see* **Davis, James Frederic, 99m:55004**
Rao, Vidhyānāth K. Towards the algebra structure of the Morava K-theory of the orthogonal groups. **99d:55002**
Ravenel, Douglas C. *see* **Hopkins, Michael J.; et al., 99e:55005**
Sadofsky, Hal (*with* Wilson, W. Stephen) Commutative Morava homology Hopf algebras. (English summary) **99i:55004**
Wilson, W. Stephen *see* **Hopkins, Michael J.; et al., 99e:55005** *and* **Sadofsky, Hal, 99i:55004**

Items with secondary classifications in 55N20

Abbondandolo, Alberto A new cohomology for the Morse theory of strongly indefinite functionals on Hilbert spaces. (English summary) **99f:58033**
Casacuberta, Carles (*with* Rodríguez, José Luis) On towers approximating homological localizations. (English summary) **99b:55016**
Hopkins, Michael J. (*with* Smith, Jeffrey H.) Nilpotence and stable homotopy theory. II. **99h:55009**
Hunton, John Robert (*with* Turner, Paul R.) Coalgebraic algebra. (English summary) **99g:16048**
Kriz, Igor Morava K-theory of classifying spaces: some calculations. (English summary) **99a:55016**
Kryszewski, Wojciech Remarks to the Vietoris theorem.

Rodríguez, José Luis *see* **Casacuberta, Carles, 99b:55016**
Rudyak, Yu. B. On category weight and its applications. (English summary) **99f:55007**
Smith, Jeffrey H. *see* **Hopkins, Michael J., 99h:55009**
Tai, Jin-Yen Generalized plus-constructions and fundamental groups. (English summary) **99i:55017**
Turner, Paul R. *see* **Hunton, John Robert, 99g:16048**
Yagita, Nobuaki Localization of the spectral sequence converging to the cohomology of an extra special p-group for odd prime p. **99e:20067**

55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

Baker, Andrew James Hecke algebras acting on elliptic cohomology. **99h:55004**
Bakuradze, M. R. On the Buchstaber subring in MSp_*. (English summary) **99f:55010**
Botvinnik, B. I. Bokshtein operators in cobordism theories of manifolds with singularities. (Russian. Russian summary) (*see* **99k:11003**)
Cohen, Frederick R. (*with* Vershinin, Vladimir V.) Thom spectra which are wedges of Eilenberg-MacLane spectra. (English summary) **99e:55007**
Hunton, John Robert (*with* Mimura, Mamoru; Nishimoto, Tetsu; Schuster, Björn) Higher v_n torsion in Lie groups. (English summary) **99i:55005**
Mimura, Mamoru *see* **Hunton, John Robert; et al., 99i:55005**
Nadiradze, R. On one class of formal groups. (Russian and Georgian summaries)
— Some formulas for the elliptic cohomology. (Russian and Georgian summaries)
Nishimoto, Tetsu *see* **Hunton, John Robert; et al., 99i:55005**
Pruidze, G. On the formal groups of the type $\frac{A(X)C(Y)-A(Y)C(X)}{B(X)D(Y)-B(Y)D(X)}$. (English summary)
Ray, Nigel A topological calculus for formal power series. (English summary) **99j:55006**
Schuster, Björn *see* **Hunton, John Robert; et al., 99i:55005**
Strickland, Neil P. Morava E-theory of symmetric groups. (English summary) **99e:55008**
Tamanoi, Hirotaka Multiplicative indecomposable splittings of $MSp_{[2]}$. **99c:55007**
Vershinin, Vladimir V. *see* **Cohen, Frederick R., 99e:55007**

Items with secondary classifications in 55N22

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55P40 Suspensions

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55P42 Stable homotopy theory, spectra

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55P60 Localization and completion

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55P62 Rational homotopy theory

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— (*with* Félix, Yves; Lemaire, Jean-Michel) Rational category and cone length of Poincaré complexes. (English summary) **99a:55002**
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55P91 Equivariant homotopy theory [see also 19L47]

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— A product decomposition of $\Omega^3_0\Sigma\mathbf{R}P^2$. (English summary) **99h:55018**

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55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

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55Q10 Stable homotopy groups

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55Q15 Whitehead products and generalizations

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55Q20 Homotopy groups of wedges, joins, and simple spaces

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55Q35 Operations in homotopy groups

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55Q45 Stable homotopy of spheres

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55Q52 Homotopy groups of special spaces

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55Q55 Cohomotopy groups

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55Q70 Homotopy groups of special types [see also 55N05, 55N07]

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55Q91 Equivariant homotopy groups [see also 19L47]

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55Q99 None of the above, but in this section

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

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Jambu, Michel Yves (*with* Papadima, Ştefan) A generalization of fiber-type arrangements and a new deformation method. (English summary) **99g:52019**
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Pintea, Cornel (*with* Varga, Csaba) A note on homology and homotopy groups of fiber spaces. **99e:55020**
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55R12 Transfer

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Kechagias, Nondas E. Modular invariant theory, homology operations, and the transfer between rings of invariants of parabolic subgroups. (English summary) **99b:55035**
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Schlichtkrull, Christian The transfer map in topological Hochschild homology. (English summary) **99j:19003**

55R15 Classification

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Boo, Deok-Hoon (*with* Oh, Sei-Qwon; Park, Chun-Gil) The spherical non-commutative tori. (English summary) **99c:46081**
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— Fibrations and classifying spaces: an axiomatic approach. II. (French summary) **99h:55023**

Günther, Bernd (*with* Mdzinarishvili, L.) Continuous Alexander-Spanier cohomology classifies principal bundles with abelian structure group. (English summary) (*see* **99a:54002**)
Mdzinarishvili, L. *see* **Günther, Bernd**, (**99a:54002**)
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55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

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Choi, Younggi (*with* Yoon, Seonhee) Homology of the triple loop space of the exceptional Lie group F_4. (English summary) **99b:55029**
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55R25 Sphere bundles and vector space bundles

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55R35 Classifying spaces of groups and H-spaces

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Levi, Ran A note on the homotopy type of $\Omega BSL_3(\mathbf{Z})_2$. (English summary) **99e:55028**
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55S40 Sectioning fiber spaces and bundles

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Horanská, Ľubomíra On sectioning multiples of the nontrivial line bundle over Grassmannians. (*see* **99g:00047**)

Items with secondary classifications in 55S40

Davis, Donald M. Embeddings of real projective spaces. **99b:57058**
Morin, Bernard Champs de vecteurs sur les sphères d'après J. F. Adams. [Vector fields on spheres, after J. F. Adams] (*see* **99f:00039**)
Serre, Jean-Pierre Utilisation des nouvelles opérations de Steenrod dans la théorie des espaces fibrés (d'après A. Borel et J.-P. Serre). [Using new Steenrod operations in the theory of fiber spaces (after A. Borel and J.-P. Serre)] (*see* **99f:00034**)

55S45 Postnikov systems, k-invariants

Berikashvili, N. An algebraic model of the Postnikov-construction. (Russian and Georgian summaries)
Grodal, Jesper The transcendence degree of the mod p cohomology of finite Postnikov systems. (English summary) **99g:55023**

Items with secondary classifications in 55S45

Bullejos, M. (*with* G. Cabello, Julia; Faro, E.) On the equivariant 2-type of a G-space. (English summary) **99c:55013**
Casacuberta, Carles On Postnikov pieces of finite dimension. (English summary) **99m:55015**
Davis, Donald M. Embeddings of real projective spaces. **99b:57058**
Faro, E. *see* **Bullejos, M.; et al., 99c:55013**
G. Cabello, Julia *see* **Bullejos, M.; et al., 99c:55013**
Hopkins, Michael J. (*with* Ravenel, Douglas C.; Wilson, W. Stephen) Morava Hopf algebras and spaces $K(n)$ equivalent to finite Postnikov systems. (English summary) **99e:55005**
Ravenel, Douglas C. *see* **Hopkins, Michael J.; et al., 99e:55005**
Wilson, W. Stephen *see* **Hopkins, Michael J.; et al., 99e:55005**

55S99 None of the above, but in this section

Items with secondary classifications in 55S99

Arkowitz, Martin (*with* Scheerer, Hans) The cohomology flat product and the Berstein algebra of a co-H-space. (English summary) **99m:55011**
Gray, Brayton The periodic lambda algebra. (English summary) **99c:55014**
Scheerer, Hans *see* **Arkowitz, Martin, 99m:55011**

55Txx Spectral sequences [see also 18G40, 55R20]

55T10 Serre spectral sequences

Honkasalo, Hannu The equivariant Serre spectral sequence as an application of a spectral sequence of Spanier. (English summary) **99k:55020**

Items with secondary classifications in 55T10

Berikashvili, N. Zur homologietheorie der Faserungen. I, II. (German and Georgian summaries) [On the homology theory of fibrations. I, II] **99k:55015**
Buoncristiano, Sandro (*with* Veit, A. Barbara) The cohomology of generalized Stiefel manifolds. (English and Italian summaries) **99e:55025**
Crabb, M. C. (*with* James, Ioan Mackenzie) ★ Fibrewise homotopy theory. (English summary) **99k:55001**
James, Ioan Mackenzie *see* **Crabb, M. C., 99k:55001**
Lemaire, Jean-Michel Inert and lazy n-cones. (English summary) **99f:55015**
Lupton, Gregory Variations on a conjecture of Halperin. (English summary) **99m:55014**
Mikiashvili, M. On the spectral sequence of a covering. (Russian and Georgian summaries) **99h:55024**
Veit, A. Barbara *see* **Buoncristiano, Sandro, 99e:55025**

55T15 Adams spectral sequences

Davis, Donald M. 3-primary v_1-periodic homotopy groups of E_7. (English summary) **99j:55021**
Lin, Wen-Hsiung (*with* Mahowald, Mark E.) The Adams spectral sequence for Minami's theorem. **99f:55023**
Mahowald, Mark E. *see* **Lin, Wen-Hsiung, 99f:55023**

Items with secondary classifications in 55T15

Bruner, Robert R. Some root invariants and Steenrod operations in $\mathrm{Ext}_A(F_2, F_2)$. (English summary) **99g:55017**
— Some remarks on the root invariant. (English summary) **99b:55023**
Davis, Donald M. Elements of large order in $\pi_*(\mathrm{SU}(n))$. **99b:55026**
Devinatz, Ethan S. The generating hypothesis revisited. (English summary) **99f:55016**
Gray, Brayton The periodic lambda algebra. (English summary) **99c:55014**
Hovey, Mark (*with* Strickland, Neil P.) Morava K-theories and localisation. (English summary) **99b:55017**
Lin, Jinkun (*with* Zheng, Qibing) A new family of filtration seven in the stable homotopy of spheres. (English summary) **99e:55021**
Lin, Wen-Hsiung A differential in the Adams spectral sequence for spheres. (English summary) **99h:55021**
Minami, Norihiko On some BP_*BP-primitive elements related to the Kervaire invariant problem. **99b:55024**
— The iterated transfer analogue of the new doomsday conjecture. (English summary) **99i:55023**
Nguyễn Hữ'u Việt Hu'ng (*with* Peterson, Franklin P.) Spherical classes and the Dickson algebra. (English summary) **99i:55021**
Peterson, Franklin P. *see* **Nguyễn Hữ'u Việt Hu'ng, 99i:55021**
Shimomura, Katsumi The homotopy groups of an L_2-localized type one finite spectrum at the prime 2. (English summary) **99h:55019**
Strickland, Neil P. *see* **Hovey, Mark, 99b:55017**
Thompson, Robert D. The L_2-localization of $W(n)$. (English summary) **99b:55019**
Yang, Huajian The stable homotopy types of stunted lens spaces mod 4. (English summary) **99b:55011**
Zheng, Qibing *see* **Lin, Jinkun, 99e:55021**

55T20 Eilenberg-Moore spectral sequences [see also 57T35]

Goodwillie, Thomas G. A remark on the homology of cosimplicial spaces. (English summary) **99e:55034**
Kriz, Igor Morava K-theory of classifying spaces: some calculations. (English summary) **99a:55016**

Items with secondary classifications in 55T20

Choi, Younggi (*with* Yoon, Seonhee) Homology of the triple loop space of the exceptional Lie group F_4. (English summary) **99b:55029**
Crabb, M. C. (*with* James, Ioan Mackenzie) ★ Fibrewise homotopy theory. (English summary) **99k:55001**
James, Ioan Mackenzie *see* **Crabb, M. C., 99k:55001**
Ravenel, Douglas C. What we still don't know about loop spaces of spheres. (English summary) **99h:55008**
Schwartz, Lionel À propos de la conjecture de non-réalisation due à N. Kuhn. [On N. Kuhn's nonrealization conjecture] **99j:55019**
Slack, Michael Infinite loop spaces with odd torsion-free homology. (English summary) **99b:55015**
Turner, James M. Relations in the homotopy of simplicial abelian Hopf algebras. (English summary) **99m:55022**
Yoon, Seonhee *see* **Choi, Younggi, 99b:55029**

55T25 Generalized cohomology

Items with secondary classifications in 55T25

Chai, Ching-Li (*with* Neeman, Amnon) The naturality in Kirwan's decomposition. (English summary) **99k:57077**
Honkasalo, Hannu The equivariant Serre spectral sequence as an application of a spectral sequence of Spanier. (English summary) **99k:55020**
Hunton, John Robert The complex oriented cohomology of extended powers. **99c:55017**
— (*with* Mimura, Mamoru; Nishimoto, Tetsu; Schuster, Björn) Higher v_n torsion in Lie groups. (English summary) **99i:55005**
Mimura, Mamoru *see* **Hunton, John Robert; et al., 99i:55005**
Neeman, Amnon *see* **Chai, Ching-Li, 99k:57077**
Nishimoto, Tetsu *see* **Hunton, John Robert; et al., 99i:55005**
Ravenel, Douglas C. What we still don't know about loop spaces of spheres. (English summary) **99h:55008**
Schuster, Björn *see* **Hunton, John Robert; et al., 99i:55005**
Wolbert, Jerome J. Classifying modules over K-theory spectra. (English summary) **99e:55013**
Yang, Huajian The stable homotopy types of stunted lens spaces mod 4. (English summary) **99b:55011**

55T99 None of the above, but in this section

Items with secondary classifications in 55T99

Fernández, Marisa (*with* Ibáñez, Raúl; de León, Manuel) The canonical spectral sequences for Poisson manifolds. (English summary) **99k:58067**
Fieux, Etienne (*with* Solotar, Andrea) Une suite spectrale pour les groupes d'homotopie des espaces d'applications équivariantes. (English and French summaries) [A spectral sequence for the homotopy groups of spaces of equivariant mappings] **99h:55014**
Henn, Hans-Werner Unstable modules over the Steenrod algebra and cohomology of groups. **99a:20056**
Ibáñez, Raúl (*with* de León, Manuel; Marrero, Juan Carlos) Homology and cohomology on generalized Poisson manifolds. (English summary) **99f:53029**
— *see also* **Fernández, Marisa; et al., 99k:58067**
Intermont, Michele An equivariant smash spectral sequence and an unstable box product. (English summary) **99j:55014**
de León, Manuel *see* **Ibáñez, Raúl; et al., 99f:53029** *and* **Fernández, Marisa; et al., 99k:58067**
Marrero, Juan Carlos *see* **Ibáñez, Raúl; et al., 99f:53029**
Saralegi Aranguren, Martin Cohomologie d'intersection des actions toriques simples. [Intersection cohomology of simple torus actions] **99d:57027**
Sklyarenko, E. G. On filtrations in hyperhomology. (Russian. Russian summary) **99f:18016**
Solotar, Andrea *see* **Fieux, Etienne, 99h:55014**

55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

Items with secondary classifications in 55U05

Müller, Gerd Automorphisms of simplicial complexes and their Stanley-Reisner rings. **99k:13032**

55U10 Semisimplicial complexes

Brown, Ronald (*with* Janelidze, George) Galois theory of second order covering maps of simplicial sets. (English summary) **99k:55021**

Cartier, Pierre Structures simpliciales. [Simplicial structures] (*see* **99f:00037**)
Fritsch, Rudolf (*with* Golasiński, Marek) Simplicial and categorical diagrams, and their equivariant applications. (English summary) **99d:55013**
Golasiński, Marek *see* **Fritsch, Rudolf, 99d:55013**
Janelidze, George *see* **Brown, Ronald, 99k:55021**
Wu, Jie[4] On fibrewise simplicial monoids and Milnor-Carlsson's constructions. (English summary) **99h:55030**

Items with secondary classifications in 55U10

Carrasco, P. (*with* Martínez Moreno, J.) A 2-dimensional cohomology with coefficients in categorical groups. **99h:18014**
Goodwillie, Thomas G. A remark on the homology of cosimplicial spaces. (English summary) **99e:55034**
Günther, Bernd (*with* Mdzinarishvili, L.) Continuous Alexander-Spanier cohomology classifies principal bundles with abelian structure group. (English summary) (*see* **99a:54002**)
Martínez Moreno, J. *see* **Carrasco, P., 99h:18014**
Mdzinarishvili, L. *see* **Günther, Bernd, (99a:54002)**
Mutlu, Ali (*with* Porter, Timothy) Applications of Peiffer pairings in the Moore complex of a simplicial group. (English summary) **99k:18018**
Porter, Timothy *see* **Mutlu, Ali, 99k:18018**
Turner, James M. Relations in the homotopy of simplicial abelian Hopf algebras. (English summary) **99m:55022**

55U15 Chain complexes

Hess, Kathryn Perturbation and transfer of generic algebraic structure. (English summary) **99k:55022**
Karoubi, Max Correspondance de Dold-Kan et formes differentielles. [Dold-Kan correspondence and differential forms] **99e:55035**

Items with secondary classifications in 55U15

Kaczyński, Tomasz (*with* Mrozek, Marian; Ślusarek, M.) Homology computation by reduction of chain complexes. (English summary) **99a:18001**
Lada, Tom Commutators of A_∞ structures. **99j:18014**
Lee, Dae-Woong Construction of a ring $\sum_{n\geq 0} C^n(\mathscr{K}_n; R)$. (English summary) **99c:55008**
— Strictly derived groups and t-step strong homology groups. (English summary) **99f:55008**
Mrozek, Marian *see* **Kaczyński, Tomasz; et al., 99a:18001**
Ślusarek, M. *see* **Kaczyński, Tomasz; et al., 99a:18001**
Smirnov, V. A.[2] Description of the homology of groups and algebras. (Russian. Russian summary) **99g:16014**
— Lie algebras over operads and their application to homotopy theory. (Russian. Russian summary) **99h:55020**

55U20 Universal coefficient theorems, Bockstein operator

Items with secondary classifications in 55U20

Schochet, Claude L. Correction to: "The UCT, the Milnor sequence, and a canonical decomposition of the Kasparov groups" [K-Theory **10** (1996), no. 1, 49–72; MR 97d:46088]. (English summary) **99d:46095**

55U25 Homology of a product, Künneth formula

Items with secondary classifications in 55U25

Livernet, Muriel Rational homotopy of Leibniz algebras. (English summary) **99h:55013**

55U30 Duality

Fimmel, Torsten Verdier duality for systems of coefficients over simplicial sets. (English summary) **99g:55024**

55U35 Abstract homotopy theory

Bak, A. Topological methods in algebra. **99g:55025**
Casacuberta, Carles (*with* Rodríguez, José Luis; Hernández, Luis Javier) Models for torsion homotopy types. (English summary) **99i:55027**
Chen, Ji Xiang A fibration of categories over $\mathscr{K}_B$. (English summary) **99b:55036**
García-Calcines, J. M. (*with* García-Pinillos, M.; Hernández, Luis Javier) A closed simplicial model category for proper homotopy and shape theories. (English summary) **99a:55017**
García-Pinillos, M. *see* **García-Calcines, J. M.; et al., 99a:55017**
Hernández, Luis Javier *see* **García-Calcines, J. M.; et al., 99a:55017** *and* **Casacuberta, Carles; et al., 99i:55027**
Hovey, Mark ★ Model categories. (English summary) **99h:55031**
Klein, John R. Structure theorems for homotopy pushouts. I. Contractible pushouts. (English summary) **99a:55018**
Rodríguez, José Luis *see* **Casacuberta, Carles; et al., 99i:55027**

Items with secondary classifications in 55U35

Arvasi, Zekeriya (*with* Koçak, Mahmut) Crossed N-cubes and n-crossed complexes of commutative algebras. (English summary) **99m:18009**
— (*with* Koçak, Mahmut) Dold-Kan type theorems for n-types of simplicitial [simplicial] commutative algebras. (English summary) **99m:18010**
— From simplicial groups to crossed complexes. (English summary) **99m:18011**
Balavoine, David Homology and cohomology with coefficients, of an algebra over a quadratic operad. (English summary) **99j:18016**
Chen, Ji Xiang Some pairs of adjoint functors involving track homotopy categories. (Chinese. English and Chinese summaries)
Ehlers, Philip John (*with* Porter, Timothy) Erratum to: "Varieties of simplicial groupoids. I. Crossed complexes" [J. Pure Appl. Algebra **120** (1997), no. 3, 221–233; MR 98d:55012]. **99k:55007**
Extremiana Aldana, J. Ignacio (*with* Hernández, Luis Javier; Rivas Rodríguez, M. Teresa) Closed model categories for $[n, m]$-types. (English summary) **99c:55010**
Fritsch, Rudolf (*with* Golasiński, Marek) Simplicial and categorical diagrams, and their equivariant applications. (English summary) **99d:55013**
Golasiński, Marek *see* **Fritsch, Rudolf, 99d:55013**
Hernández, Luis Javier *see* **Extremiana Aldana, J. Ignacio; et al., 99c:55010**
Hess, Kathryn Perturbation and transfer of generic algebraic structure. (English summary) **99k:55022**
Hinich, Vladimir Homological algebra of homotopy algebras. **99b:18017**
Janelidze, George (*with* Márki, László; Tholen, Walter) Locally semisimple coverings. (English summary) **99d:18010**
Kapranov, Mikhail Operads and algebraic geometry. (English summary) **99g:14033**
Kimura, Takashi[2] (*with* Voronov, Alexander A.; Zuckerman, Gregg J.) Homotopy Gerstenhaber algebras and topological field theory. (English summary) **99c:58028**
Koçak, Mahmut *see* **Arvasi, Zekeriya, 99m:18009** *and* **99m:18010**
Kramer, Xenia H. (*with* Laubenbacher, Reinhard C.) Combinatorial homotopy of simplicial complexes and complex information systems. (English summary) **99d:05092**
Laubenbacher, Reinhard C. *see* **Kramer, Xenia H., 99d:05092**
Mardešić, Sibe Coherent and strong expansions of spaces coincide. (English summary) **99g:55013**
Márki, László *see* **Janelidze, George; et al., 99d:18010**
Markl, Martin (*with* Stasheff, James D.) On the compactification of configuration spaces. (*see* **99g:00047**)
May, J. P. Brave new worlds in stable homotopy theory. **99g:55012**
Neeman, Amnon Brown representability for the dual. (English summary) **99b:55021**
— Non-compactly generated categories. **99k:18015**
Nest, Ryszard (*with* Tsygan, Boris) The Fukaya type categories for associative algebras. **99b:16011**
Porter, Timothy *see* **Ehlers, Philip John, 99k:55007**
Rivas Rodríguez, M. Teresa *see* **Extremiana Aldana, J. Ignacio; et al., 99c:55010**
Stasheff, James D. *see* **Markl, Martin, (99g:00047)**
Tholen, Walter *see* **Janelidze, George; et al., 99d:18010**
Tsygan, Boris *see* **Nest, Ryszard, 99b:16011**
Voevodsky, Vladimir $\mathbf{A}^1$-homotopy theory. (English summary) **99j:14018**
Voronov, Alexander A. *see* **Kimura, Takashi[2]; et al., 99c:58028**
Zuckerman, Gregg J. *see* **Kimura, Takashi[2]; et al., 99c:58028**

55U40 Topological categories

Items with secondary classifications in 55U40

Hernández, Luis Javier Fundamental pro-groupoids and covering projections. (English summary) **99a:55010**

55U99 None of the above, but in this section

Arvasi, Zekeriya The image of the Moore complex of simplicial groups. **99e:55036**

Items with secondary classifications in 55U99

Batanin, Mikhail A. Homotopy coherent category theory and A_∞-structures in monoidal categories. (English summary) **99c:18007**
Goerss, P. G. (*with* Turner, James M.) Homotopy theory of simplicial abelian Hopf algebras. (English summary) **99k:18017**
Gran, M. (*with* Vitale, Enrico M.) On the exact completion of the homotopy category. (French summary) **99i:18006**
Kimura, Takashi[2] (*with* Stasheff, James D.; Voronov, Alexander A.) Homology of moduli of curves and commutative homotopy algebras. **99f:14029**
Schenck, Henry K. (*with* Stillman, Michael) Local cohomology of bivariate splines. (English summary) **99d:13011**
Stasheff, James D. *see* **Kimura, Takashi[2]; et al., 99f:14029**
Stillman, Michael *see* **Schenck, Henry K., 99d:13011**
Tillmann, Ulrike On the homotopy of the stable mapping class group. (English summary) **99k:57036**
Turner, James M. *see* **Goerss, P. G., 99k:18017**
Vitale, Enrico M. *see* **Gran, M., 99i:18006**
Voronov, Alexander A. *see* **Kimura, Takashi[2]; et al., 99f:14029**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bloch, Ethan D. ★ A first course in geometric topology and differential geometry. **99c:57001**
Outerelo Domínguez, Enrique (*with* Ruiz, Jesús M.) ★ Topología diferencial. (Spanish. Spanish summary) [Differential topology] **99h:57001**
Ruiz, Jesús M. *see* **Outerelo Domínguez, Enrique**, **99h:57001**

Items with secondary classifications in 57–01

Borisenko, A. A. ★ Диференціальна геометрія і топологія. (Ukrainian. Ukrainian summary) [Differential geometry and topology] **99b:53001**
(Cieciura, Grzegorz) *see* **Jänich, Klaus**, **99a:54001**
(Czarnocka-Cieciura, Dorota) *see* **Jänich, Klaus**, **99a:54001**
Jänich, Klaus ★ Topologia. (Polish. Polish summary) [Topology] **99a:54001**

57–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 57–02

van den Dries, Lou ★ Tame topology and o-minimal structures. (English summary) **99j:03001**
(Miller, Haynes) *see* **Rudyak, Yu. B.**, **99f:55001**
Rudyak, Yu. B. ★ On Thom spectra, orientability, and cobordism. **99f:55001**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 57–03

Atiyah, Michael F. The work of Simon Donaldson [MR 89d:01055]. (*see* **99b:00010**)
— The work of Edward Witten [MR 93e:81001b]. (*see* **99b:00010**)
— The work of Serge Novikov [MR **54** #2383]. (*see* **99b:00010**)
— *see also* **Cartan, Henri**, (**99b:00010**)
Birman, Joan S. The work of Vaughan F. R. Jones [MR 93b:01035]. (*see* **99b:00010**)
Cartan, Henri L'œuvre de Michael F. Atiyah [MR **38** #1692]. (French summary) [The work of Michael F. Atiyah] (*see* **99b:00010**)
(Donaldson, Simon) *see* **Atiyah, Michael F.**, (**99b:00010**)
Epple, Moritz Topology, matter, and space. I. Topological notions in 19th-century natural philosophy. **99c:01012**
Faddeev, Lyudvig Dmitrievich The work of E. Witten [MR 93e:81001a]. (*see* **99b:00010**)
(Freedman, Michael Hartley) *see* **Milnor, John**, (**99b:00010**)
Herreman, Alain Le statut de la géométrie dans quelques textes sur l'homologie, de Poincaré aux années 1930. (English and French summaries) [The status of geometry in various contributions on homology, from Poincaré to the 1930s] **99b:01016**
Hopf, H. The work of R. Thom [MR **22** #5558]. (*see* **99b:00010**)
(Jones, Vaughan F. R.) *see* **Birman, Joan S.**, (**99b:00010**)
Milnor, John The work of M. H. Freedman [MR 89d:01064]. (*see* **99b:00010**)
— Growing up in the old Fine Hall. **99m:01081**
Novikov, Sergeĭ Petrovich Rôle of integrable models in the development of mathematics [see MR 94j:00018]. (English summary) (*see* **99b:00010**)
— *see also* **Atiyah, Michael F.**, (**99b:00010**)
Przytycki, Józef H. Classical roots of knot theory. (English summary) **99c:57030**
(Smale, Stephen) *see* **Thom, René**, (**99b:00010**)
Thom, René Sur les travaux de Stephen Smale [MR **38** #1703]. [On the works of Stephen Smale] (*see* **99b:00010**)
— Autobiography of René Thom. (*see* **99b:00010**)
— *see also* **Hopf, H.**, (**99b:00010**)
(Thurston, William P.) *see* **Wall, C. T. C.**, (**99b:00010**)
Wall, C. T. C. The work of W. Thurston [MR 86j:01035]. (*see* **99b:00010**)
(Witten, Edward) *see* **Faddeev, Lyudvig Dmitrievich**, (**99b:00010**) *and* **Atiyah, Michael F.**, (**99b:00010**)

Items listed otherwise than by author

Biography:
Thom, René *see* **Thom, René**, (**99b:00010**)

57–04 Explicit machine computation and programs (not the theory of computation or programming)

Duzhin, F. S. *see* **Gusein-Zade, Sabir M.**, **99i:57001**
Gusein-Zade, Sabir M. (*with* Duzhin, F. S.) On the number of topological types of plane curves. (Russian) **99i:57001**

Items with secondary classifications in 57–04

Aneziris, Charilaos Computer programs for knot tabulation. (English summary) **99i:57005**
Kanenobu, Taizo Kauffman polynomials as Vassiliev link invariants. **99m:57005**

57–06 Proceedings, conferences, collections, etc.

(Adams, Colin C.) *see* **Knot theory and its applications**, **99a:57001**
(Jones, Vaughan F. R.) *see* **Knot theory**, **99c:57002**
(Kania-Bartoszyńska, Joanna) *see* **Knot theory**, **99c:57002**
(Oprea, John) *see* **Homotopy and geometry**, **99k:57001**
(Przytycki, Józef H.) *see* **Knot theory**, **99c:57002**
(Stern, Ronald John) *see* **Topics in symplectic 4-manifolds**, **99b:57001**
(Suzuki, Shin'ichi) *see* **KNOTS '96**, **99i:57002**
(Traczyk, Pawel) *see* **Knot theory**, **99c:57002**
(Tralle, A. E.) *see* **Homotopy and geometry**, **99k:57001**
(Turaev, Vladimir G.) *see* **Knot theory**, **99c:57002**

Items listed otherwise than by author

Conference:
Knot Theory ★ KNOTS '96. **99i:57002**
Homotopy and geometry ★ Homotopy and geometry. **99k:57001**
Irvine, CA ★ Topics in symplectic 4-manifolds. **99b:57001**
Knot theory ★ Knot theory. **99c:57002**
Knot theory and its applications ★ Knot theory and its applications. **99a:57001**
KNOTS '96 ★ KNOTS '96. **99i:57002**
Lectures:
International Press ★ Topics in symplectic 4-manifolds. **99b:57001**
Tokyo ★ KNOTS '96. **99i:57002**
Topics in symplectic 4-manifolds ★ Topics in symplectic 4-manifolds. **99b:57001**
Warsaw ★ Knot theory. **99c:57002**
— ★ Homotopy and geometry. **99k:57001**
Workshop:
Homotopy and Geometry ★ Homotopy and geometry. **99k:57001**
Knot Theory ★ KNOTS '96. **99i:57002**

Items with secondary classifications in 57–06

(Epstein, David B. A.) *see* **Epstein birthday schrift**, **99h:00016**
(Hsiung, Chuan-Chih) *see* **Surveys in differential geometry**, **99k:58003**
(Kojima, Sadayoshi) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Matsumoto, Yukio) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Rivin, Igor) *see* **Epstein birthday schrift**, **99h:00016**
(Rourke, Colin P.) *see* **Epstein birthday schrift**, **99h:00016**
(Saito, Kyoji) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Schweitzer, Paul A.) *see* **Meeting: Topology**, **99b:55001**
(Seppälä, Mika) *see* **Topology and Teichmüller spaces**, **99g:00051**
(Series, Caroline) *see* **Epstein birthday schrift**, **99h:00016**
(Szenthe, J.) *see* **New developments in differential geometry**, **99h:53002**
(Yau, Shing-Tung) *see* **Surveys in differential geometry**, **99k:58003**

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Anniversary:
Journal of Differential Geometry ★ Surveys in differential geometry. Vol. III. **99k:58003**
Birthday:
Epstein, David B. A. ★ The Epstein birthday schrift. **99h:00016**
Hsiung, Chuan-Chih ★ Surveys in differential geometry. Vol. III. **99k:58003**
Budapest ★ New developments in differential geometry, Budapest 1996. **99h:53002**
Cambridge, MA ★ Surveys in differential geometry. Vol. III. **99k:58003**
Conference:
Differential Geometry ★ New developments in differential geometry, Budapest 1996. **99h:53002**
Epstein birthday schrift ★ The Epstein birthday schrift. **99h:00016**
Festschrift:
Epstein, David B. A. ★ The Epstein birthday schrift. **99h:00016**
Katinkulta ★ Topology and Teichmüller spaces. **99g:00051**
Meeting:
Topology ★ 10th Brazilian Topology Meeting. **99b:55001**
New developments in differential geometry ★ New developments in differential geometry, Budapest 1996. **99h:53002**
Research on the theory of topological quantum fields induced by $6j$-symbols ★ $6j$-symbol kara michibi kareru isōteki ryōshi ba no riron no kenkyū. (Japanese) [Research on the theory of topological quantum fiel[illegible]nduced by $6j$-symbols] **99k:00036**
São Carlos ★ 10th Brazilian Topology Meeting. **99b:55001**
Surveys in differential geometry ★ Surveys in differential geometry. Vol. III. **99k:58003**
Symposium:
Research on the Theory of Topological Quantum Fields Induced by $6j$-symbols ★ $6j$-symbol kara michibi kareru isōteki ryōshi ba no riron no kenkyū. (Japanese) [Research on the theory of topological quantum fields induced by $6j$-symbols] **99k:00036**
Topology and Teichmüller Spaces ★ Topology and Teichmüller spaces. **99g:00051**
Topology and Teichmüller spaces ★ Topology and Teichmüller spaces. **99g:00051**

57Mxx Low-dimensional topology

57M05 Fundamental group, presentations, free differential calculus

Ahara, Kazushi How to draw a simple closed curve on a picture of Riemann surface. (*see* **99e:30001**)
Cavicchioli, Alberto (*with* Hegenbarth, Friedrich; Repovš, Dušan D.) On manifold spines and cyclic presentations of groups. (English summary) **99c:57003**
Dicks, Warren (*with* Glover, H. H.) An algorithm for cellular maps of closed surfaces. (English summary) **99e:57001**
Eckmann, Beno 4-manifolds, group invariants, and l_2-Betti numbers. (English summary) **99b:57002**
Glover, H. H. *see* **Dicks, Warren**, **99e:57001**
Goryushkin, V. A. The nonfiniteness of the fundamental groups of a series of 3-manifolds. (Russian. Russian summary) **99c:57004**
Hegenbarth, Friedrich *see* **Cavicchioli, Alberto; et al.**, **99c:57003**
Kim, Ann Chi (*with* Vesnin, Andrei) Cyclically presented groups and Takahashi manifolds. (English summary) **99g:57001**
Kucuk, Ahmet The fundamental group of bordered surfaces. (English summary)

Mihalik, Michael L. Group extensions and tame pairs. (English summary) **99e:57002**
Moulton, Vincent L. Vector braids. (English summary) **99f:57001**
Repovš, Dušan D. *see* **Cavicchioli, Alberto; et al., 99c:57003**
Takeuchi, Yoshihiro (*with* Yokoyama, Misako) The realizations of the amalgamated free products of 3-orbifold fundamental groups. (English summary) (*see* **99e:30001**)
Udono, Tetsuro Fundamental groups of compact geodesic completely affine flat 4-dimensional manifolds. (Japanese) (*see* **99e:30001**)
Vesnin, Andrei *see* **Kim, Ann Chi, 99g:57001**
Yokoyama, Misako *see* **Takeuchi, Yoshihiro, (99e:30001)**

Items with secondary classifications in 57M05

Allman, Elizabeth S. (*with* Hamilton, Emily) Abelian subgroups of finitely generated Kleinian groups are separable. **99m:20118**
Artal-Bartolo, Enrique A curve of degree five with non-abelian fundamental group. (English summary) **99f:14030a**
— Erratum to: "A curve of degree five with non-abelian fundamental group". **99f:14030b**
Cohen, Daniel C. (*with* Suciu, Alexander I.) Homology of iterated semidirect products of free groups. (English summary) **99e:20064**
— (*with* Suciu, Alexander I.) Alexander invariants of complex hyperplane arrangements. (English summary) **99m:52019**
Dougherty, Randall (*with* Mycielski, Jan) Representations of infinite permutations by words. II. (English summary) **99j:20002**
Guadagnini, Enore (*with* Pilo, L.) Three-manifold invariants and their relation with the fundamental group. (English summary) **99g:57019**
Hagelberg, Marcel (*with* Hidalgo, Rubén A.) Some generalized Coxeter groups and their orbifolds. (English summary) **99c:57038**
Hamilton, Emily *see* **Allman, Elizabeth S., 99m:20118**
Hayashi, Masato The moduli space of SU(3)-flat connections and the fusion rules. (English summary) **99h:58028**
Helling, H. (*with* Kim, Ann Chi; Mennicke, J. L.) A geometric study of Fibonacci groups. (English summary) **99c:57005**
Hidalgo, Rubén A. *see* **Hagelberg, Marcel, 99c:57038**
Hsu, Tim (*with* Wise, Daniel T.) Embedding theorems for non-positively curved polygons of finite groups. (English summary) **99a:20036**
Johnson, F. E. A. Subgroups of products of surface groups. **99k:20079**
Kim, Ann Chi *see* **Helling, H.; et al., 99c:57005**
Lescop, Christine On the Casson invariant. (English summary) **99k:57022**
Mennicke, J. L. *see* **Helling, H.; et al., 99c:57005**
Mycielski, Jan *see* **Dougherty, Randall, 99j:20002**
Paoluzzi, Luisa PSL$(2, q)$ quotients of some hyperbolic tetrahedral and Coxeter groups. (English summary) **99a:20047**
Pilo, L. *see* **Guadagnini, Enore, 99g:57019**
Putinar, Gabriela Nilpotent quotients of fundamental groups of special 3-manifolds with boundary. (English summary) **99g:57023**
Rubinstein, Joachim H. (*with* Wang, Shicheng) π_1-injective surfaces in graph manifolds. (English summary) **99h:57039**
Sharp, Richard Relative growth series in some hyperbolic groups. **99g:20055**
Spaggiari, Fulvia On certain classes of finite groups. (English summary) **99c:20041**
Suciu, Alexander I. *see* **Cohen, Daniel C., 99e:20064** *and* **99m:52019**
Wang, Shicheng *see* **Rubinstein, Joachim H., 99h:57039**
Wise, Daniel T. *see* **Hsu, Tim, 99a:20036**

57M07 Topological methods in group theory

Brin, Matthew G. The chameleon groups of Richard J. Thompson: automorphisms and dynamics. **99e:57003**
(Cooper, Daryl) *see* **Farb, Benson, 99b:57003**
Farb, Benson (*with* Mosher, Lee) A rigidity theorem for the solvable Baumslag-Solitar groups. **99b:57003**
Helling, H. (*with* Kim, Ann Chi; Mennicke, J. L.) A geometric study of Fibonacci groups. (English summary) **99c:57005**
Kakimizu, Osamu[2] Operations on trees of groups and decompositions of graph products and surface products. (Japanese) (*see* **99e:30001**)
Kim, Ann Chi *see* **Helling, H.; et al., 99c:57005**
Meier, John (*with* Meinert, Holger; Van Wyk, Leonard) Higher generation subgroup sets and the Σ-invariants of graph groups. (English summary) **99f:57002**
Meinert, Holger *see* **Meier, John; et al., 99f:57002**
Mennicke, J. L. *see* **Helling, H.; et al., 99c:57005**
Mitra, Mahan Cannon-Thurston maps for trees of hyperbolic metric spaces. (English summary) **99e:57004**
— Cannon-Thurston maps for hyperbolic group extensions. **99d:57001**
Mosher, Lee *see* **Farb, Benson, 99b:57003**
Van Wyk, Leonard *see* **Meier, John; et al., 99f:57002**

Items with secondary classifications in 57M07

Abels, Herbert (*with* Tiemeyer, A.) Compactness properties of locally compact groups. (English summary) **99f:22007**
Allcock, Daniel (*with* Gersten, S. M.) A homological characterization of hyperbolic groups. (English summary) **99m:20078**
Alonso, Juan Manuel (*with* Bogley, W. A.; Burton, Robert M., Jr.; Pride, Stephen J.; Wang, Xiao Feng[1]) Second order Dehn functions of groups. **99c:20047**
Bogley, W. A. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Bowditch, Brian H. Cut points and canonical splittings of hyperbolic groups. **99g:20069**
— Group actions on trees and dendrons. **99i:20039**
Brick, Stephen G. (*with* Corson, Jon M.) Dehn functions and complexes of groups. (English summary) **99e:20042**
Burton, Robert M., Jr. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Chiswell, I. M. Minimal group actions on Λ-trees. (English summary) **99b:20046**
Cooper, Daryl (*with* Long, D. D.) On the Burau representation modulo a small prime. (English summary) **99k:20077**
Corson, Jon M. (*with* Spieler, Barry S.) The qsf property and group actions via complexes of spaces. **99f:57044**
— *see also* **Brick, Stephen G., 99e:20042**
Davis, Michael Walter The cohomology of a Coxeter group with group ring coefficients. **99b:20067**
Deo, Satya (*with* Varadarajan, Kalathoor) Hopfian and co-Hopfian groups. (English summary) **99a:20055**
Dicks, Warren (*with* Glover, H. H.) An algorithm for cellular maps of closed surfaces. (English summary) **99e:57001**
— (*with* Leary, Ian J.) Presentations for subgroups of Artin groups. (English summary) **99c:20050**
Farb, Benson Relatively hyperbolic groups. **99j:20043**
Freedman, Michael Hartley (*with* Hain, Richard M.; Teichner, Peter) Betti number estimates for nilpotent groups. (English summary) **99d:20052**
Funar, Louis On discrete solvgroups and Poénaru's condition. (English summary) **99k:20074**
Gaboriau, Damien (*with* Jaeger, Andre; Levitt, Gilbert; Lustig, Martin) An index for counting fixed points of automorphisms of free groups. **99f:20051**
Gerasimov, V. N. Semi-splittings of groups and actions on cubings. (Russian. Russian summary) **99c:20049**
— Fixed-point-free actions on cubings [translation of *Algebra, geometry, analysis and mathematical physics (Russian) (Novosibirsk, 1996)*, 91–109, 190, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1997; MR 99c:20049]. (English summary)
Gersten, S. M. *see* **Allcock, Daniel, 99m:20078**
Gilbert, N. D. Monoid presentations and associated groupoids. (English summary) **99d:20092**
Glover, H. H. *see* **Dicks, Warren, 99e:57001**
Guirardel, Vincent Approximations of stable actions on **R**-trees. (English summary) **99e:20037**
Hain, Richard M. *see* **Freedman, Michael Hartley; et al., 99d:20052**
Hatcher, Allen (*with* Vogtmann, Karen) The complex of free factors of a free group. **99i:20038**
Jaeger, Andre *see* **Gaboriau, Damien; et al., 99f:20051**
Kharlampovich, Olga (*with* Lioutikova, E.; Myasnikov, A. G.) Equations in the **Q**-completion of a torsion-free hyperbolic group. **99j:20039b**
Klyachko, Anton Alexandrovich Asphericity tests. (English summary) **99d:20059**
Koubi, Malik Croissance uniforme dans les groupes hyperboliques. (English and French summaries) [Uniform growth in hyperbolic groups] **99m:20080**
Leary, Ian J. *see* **Dicks, Warren, 99c:20050**
Levitt, Gilbert *see* **Gaboriau, Damien; et al., 99f:20051**
Lioutikova, E. *see* **Kharlampovich, Olga; et al., 99j:20039b**
Long, D. D. (*with* Reid, Alan W.) Free products with amalgamation and p-adic Lie groups. (English summary) **99m:20052**
— *see also* **Cooper, Daryl, 99k:20077**
Lott, John Deficiencies of lattice subgroups of Lie groups. (English summary) **99m:22011**
Lustig, Martin *see* **Gaboriau, Damien; et al., 99f:20051**
Moulton, Vincent L. Vector braids. (English summary) **99f:57001**
Myasnikov, A. G. *see* **Kharlampovich, Olga; et al., 99j:20039b**
Ohshika, Ken'ichi Théorèmes de convergence pour les groupes kleiniens décomposables. [Convergence theorems for decomposable Kleinian groups] (*see* **99e:30001**)
— (*with* Potyagaĭlo, L. D.) Self-embeddings of Kleinian groups. (English and French summaries) **99d:57009**
Pavone, Marco On the hyperbolic limit points of groups acting on hyperbolic spaces. (English summary) **99f:20063**
Potyagaĭlo, L. D. *see* **Ohshika, Ken'ichi, 99d:57009**
Pride, Stephen J. *see* **Alonso, Juan Manuel; et al., 99c:20047**
Ramagge, Jacqui (*with* Robertson, A. Guyan; Steger, Tim) A Haagerup inequality for $\tilde{A}_1 \times \tilde{A}_1$ and $\tilde{A}_2$ buildings. (English summary) **99j:20046**
Reid, Alan W. *see* **Long, D. D., 99m:20052**
Riguet, Jacques Calcul différentiel libre. [Free differential calculus] (*see* **99f:00035**)
Robertson, A. Guyan *see* **Ramagge, Jacqui; et al., 99j:20046**
Scott, Peter The symmetry of intersection numbers in group theory. (English summary) **99k:20076a**
— Correction to: "The symmetry of intersection numbers in group theory". **99k:20076b**
Sela, Z. Endomorphisms of hyperbolic groups. I. The Hopf property. (English summary) **99m:20081**
Spaggiari, Fulvia On certain classes of finite groups. (English summary) **99c:20041**
Spieler, Barry S. *see* **Corson, Jon M., 99f:57044**
Steger, Tim *see* **Ramagge, Jacqui; et al., 99j:20046**
Szczepański, Andrzej Relatively hyperbolic groups. **99i:20051**
Takeuchi, Yoshihiro (*with* Yokoyama, Misako) The realizations of the amalgamated free products of 3-orbifold fundamental groups. (English summary) (*see* **99e:30001**)
Teichner, Peter *see* **Freedman, Michael Hartley; et al., 99d:20052**
Tiemeyer, A. *see* **Abels, Herbert, 99f:22007**
Varadarajan, Kalathoor *see* **Deo, Satya, 99a:20055**
Vogtmann, Karen *see* **Hatcher, Allen, 99i:20038**
Wang, Xiao Feng[1] *see* **Alonso, Juan Manuel; et al., 99c:20047**
Yokoyama, Misako *see* **Takeuchi, Yoshihiro, (99e:30001)**

57M10 Covering spaces

de Neymet, Sylvia Covering actions. (Spanish. Spanish summary) (*see* **99f:00013**)

Items with secondary classifications in 57M10

Brown, Ronald (*with* Janelidze, George) Galois theory of second order covering maps of simplicial sets. (English summary) **99k:55021**
Dodziuk, Jozef (*with* Mathai, Varghese) Approximating L^2 invariants of amenable covering spaces: a combinatorial approach. (English summary) **99e:58201**
Freedman, Benedict (*with* Freedman, Michael Hartley) Kneser-Haken finiteness for bounded 3-manifolds locally free groups, and cyclic covers. (English summary)

99h:57036
Freedman, Michael Hartley *see* **Freedman, Benedict**, 99h:57036
Janelidze, George *see* **Brown, Ronald**, 99k:55021
Mathai, Varghese *see* **Dodziuk, Jozef**, 99e:58201
Mitra, Mahan Cannon-Thurston maps for hyperbolic group extensions. **99d:57001**
Myers, John Robert Contractible open 3-manifolds which non-trivially cover only non-compact 3-manifolds. **99g:57022**
Oertel, Ulrich Affine laminations and their stretch factors. (English summary) **99i:57037**
Shin, Joonkook Isometry groups of unimodular simply connected 3-dimensional Lie groups. (English summary) **99a:57031**

57M12 Special coverings, e.g. branched

Bil'chenko, G. G. (*with* Kayumov, I. R.; Nasyrov, S. R.; Sadykov, M. F.) Branched coverings of nonorientable surfaces by orientable ones with a given projection of the boundary. (Russian) **99g:57002**
Hansen, Vagn Lundsgaard Weierstrass polynomials for links. (English summary) **99m:57001**
Heinonen, Juha (*with* Rickman, Seppo) Quasiregular maps $\mathbf{S}^3 \to \mathbf{S}^3$ with wild branch sets. (English summary) **99e:57005**
Kayumov, I. R. *see* **Bil'chenko, G. G.; et al.**, 99g:57002
Kim, Goansu (*with* Kim, Yangkok; Vesnin, Andrei) The knot 5_2 and cyclically presented groups. (English summary) **99k:57002**
Kim, Yangkok *see* **Kim, Goansu; et al.**, 99k:57002
Kwak, Jin Ho (*with* Lee, Jaeun) Distribution of branched $\mathbf{D}_p$-coverings of surfaces. (English summary) **99e:57006**
Lee, Jaeun *see* **Kwak, Jin Ho**, 99e:57006
Nasyrov, S. R. *see* **Bil'chenko, G. G.; et al.**, 99g:57002
Paoluzzi, Luisa On a class of cyclic branched coverings of $(S^2 \times S^1) - B^3$. (English summary) **99j:57001**
Rickman, Seppo *see* **Heinonen, Juha**, 99e:57005
Sadykov, M. F. *see* **Bil'chenko, G. G.; et al.**, 99g:57002
Vesnin, Andrei *see* **Kim, Goansu; et al.**, 99k:57002

Items with secondary classifications in 57M12

Dicks, Warren (*with* Glover, H. H.) An algorithm for cellular maps of closed surfaces. (English summary) **99e:57001**
Finashin, S. M. Quotient spaces of surfaces with real fibering under complex conjugation. (Russian. Russian summary) **99a:57020**
Fuller, Terry Diffeomorphism types of genus 2 Lefschetz fibrations. **99f:57035**
Glover, H. H. *see* **Dicks, Warren**, 99e:57001
Heinonen, Juha (*with* Semmes, Stephen) Thirty-three yes or no questions about mappings, measures, and metrics. **99h:28012**
Kopuzlu, Abdullah On 2-sheeted covering spaces of $K_{3,n}$-torus knots. (English summary) **99f:57008**
Mednykh, Aleksandr D. (*with* Vesnin, Andrei) Visualization of the isometry group action on the Fomenko-Matveev-Weeks manifold. (English summary) **99c:57042**
— *see also* **Vesin, A. Yu.**, 99f:57022
Núñez, Víctor Universal links for $S^2 \widetilde{\times} S^1$. (English summary) **99b:57018**
Ruini, Beatrice Crystallizations of Seifert fibered 3-manifolds. **99k:57043**
Semmes, Stephen *see* **Heinonen, Juha**, 99h:28012
Sullivan, Michael C. Positive braids with a half twist are prime. (English summary) **99b:57024**
Tejada, Débora María Construction of 3-manifolds and branched coverings. (Spanish. English and Spanish summaries) **99h:57042**
Vesin, A. Yu. (*with* Mednykh, Aleksandr D.) The Heegaard genus of three-dimensional hyperbolic manifolds of small volume. (Russian. Russian summary) **99f:57022**
Vesnin, Andrei *see* **Mednykh, Aleksandr D.**, 99c:57042
Yamada, Yuichi Some Seifert 3-manifolds which decompose S^4 as a twisted double. (*see* 99i:57002)

57M15 Relations with graph theory [see also 05Cxx]

Bar-Natan, Dror Lie algebras and the four color theorem. (English summary) **99c:57006**
Cavicchioli, Alberto (*with* Repovš, Dušan D.; Skopenkov, A. B.) Open problems on graphs arising from geometric topology. (English summary) **99d:57002**
Chen, Beifang (*with* Lawrencenko, Serge) Structural characterization of projective flexibility. (English summary) **99e:57007**
Grasselli, Luigi (*with* Piccarreta, Salvina) Tetrahedron manifolds via coloured graphs. (English summary) **99b:57004**
Han, You Fa Incompressible pairwise incompressible surfaces in almost alternating knot complements. (English summary) **99g:57003**
Inaba, Hisayoshi (*with* Soma, Teruhiko) On spatial graphs isotopic to planar embeddings. **99j:57002**
Jaeger, François On some graph invariants related to the Kauffman polynomial. **99a:57002**
Kauffman, Louis H. Spin networks and topology. (English summary) **99i:57003**
Kurpita, B. I. (*with* Murasugi, Kunio) On the Tutte polynomial. (English summary) **99i:57004**
— (*with* Murasugi, Kunio) Knots and graphs. (English summary) **99k:57003**
Lawrencenko, Serge *see* **Chen, Beifang**, 99e:57007
Murasugi, Kunio *see* **Kurpita, B. I.**, 99i:57004 *and* 99k:57003
Negami, Seiya (*with* Tsukamoto, Tatsuya) Note on spatial graphs with good drawings. **99k:57004**
Piccarreta, Salvina *see* **Grasselli, Luigi**, 99b:57004
Prishlyak, A. O. On embedded graphs in a surface. (Russian) **99a:57003**
Rabinovich, Yuri (*with* Raz, Ran) Lower bounds on the distortion of embedding finite metric spaces in graphs. (English summary) **99a:57004**
Raz, Ran *see* **Rabinovich, Yuri**, 99a:57004
Repovš, Dušan D. *see* **Cavicchioli, Alberto; et al.**, 99d:57002
Sawollek, Jörg Embeddings of 4-regular graphs into 3-space. (English summary) **99c:57007**
Skopenkov, A. B. *see* **Cavicchioli, Alberto; et al.**, 99d:57002
Soma, Teruhiko Symmetries of minimum graphs in the 3-sphere. (English summary) **99g:57004**
— Spatial-graph isotopy and the rearrangement theorem. **99j:57003**
— *see also* **Inaba, Hisayoshi**, 99j:57002
Tsukamoto, Tatsuya Any knot is inevitable in a regular projection of a planar graph. (English summary) **99b:57005**
— *see also* **Negami, Seiya**, 99k:57004
Yasuhara, Akira Delta-unknotting operation and adaptability of certain graphs. (English summary) **99j:57004**

Items with secondary classifications in 57M15

Ayala, R. (*with* Chávez, M. J.; Márquez, Alberto; Quintero, A.) On the proper planarity of 3-connected generalized Peano continua. (English summary) **99g:54030**
— (*with* Chávez, M. J.; Márquez, Alberto; Quintero, A.) On the connectivity of infinite graphs and 2-complexes. (English summary) **99i:05126**
Bandieri, Paola Constructing n-manifolds from spines. (English and Italian summaries) **99k:57051**
Beineke, Lowell W. Topology. (English summary) (*see* **99a:05001**)
Beltrami, Elisabetta (*with* Cromwell, Peter R.) A limitation on algorithms for constructing minimal arc-presentations from link diagrams. (English summary) **99e:57008**
Casali, Maria Rita Classification of nonorientable 3-manifolds admitting decompositions into ≤ 26 coloured tetrahedra. (English summary) **99h:57034**
Chávez, M. J. *see* **Ayala, R.; et al.**, 99g:54030 *and* 99i:05126
Cori, Robert (*with* Marcus, Michel) Counting non-isomorphic chord diagrams. (English summary) **99i:05099**
Cromwell, Peter R. *see* **Beltrami, Elisabetta**, 99e:57008
Duzhin, F. S. *see* **Gusein-Zade, Sabir M.**, 99i:57001
Feng, Rong-Quan (*with* Kwak, Jin Ho; Kim, Juyoung; Lee, Jaeun) Isomorphism classes of concrete graph coverings. (English summary) **99k:05062**
Gusein-Zade, Sabir M. (*with* Duzhin, F. S.) On the number of topological types of plane curves. (Russian) **99i:57001**
Hayashi, Chuichiro (*with* Motegi, Kimihiko) Applications of graph theory to cut-and-paste arguments [translation of Sūgaku **47** (1995), no. 4, 377–393; MR 97d:57005]. (*see* **99h:00040**)
Hofmeister, Michael A note on counting connected graph covering projections. (English summary) **99b:05038**
Jendroľ, Stanislav (*with* Nedela, Roman; Škoviera, Martin) Constructing regular maps and graphs from planar quotients. (English summary) **99h:05054**
Jiang, Boju Bounds for fixed points on surfaces. **99h:55002**
Kassel, Christian (*with* Turaev, Vladimir G.) Chord diagram invariants of tangles and graphs. **99b:57012**
Kim, Juyoung *see* **Feng, Rong-Quan; et al.**, 99k:05062
Kobayashi, Kazushiro Curvature dimension of trivalent graphs. (English summary) **99m:05051**
Kwak, Jin Ho (*with* Lee, Jaeun) Distribution of branched $\mathbf{D}_p$-coverings of surfaces. (English summary) **99e:57006**
— *see also* **Feng, Rong-Quan; et al.**, 99k:05062
Lee, Jaeun *see* **Kwak, Jin Ho**, 99e:57006 *and* **Feng, Rong-Quan; et al.**, 99k:05062
Marcus, Michel *see* **Cori, Robert**, 99i:05099
Márquez, Alberto *see* **Ayala, R.; et al.**, 99g:54030 *and* 99i:05126
Mohar, Bojan Face-width of embedded graphs. (English summary) **99b:05040**
— On the orientable genus of graphs with bounded nonorientable genus. (English summary) **99b:05041**
Motegi, Kimihiko *see* **Hayashi, Chuichiro**, (**99h:00040**)
Motohashi, Tomoe (*with* Taniyama, Kouki) Delta unknotting operation and vertex homotopy of graphs in $\mathbf{R}^3$. (English summary) **99i:57021**
— A prime decomposition theorem for θ_n-curves in S^3. (English summary) **99b:57017**
Murasugi, Kunio (*with* Przytycki, Józef H.) Index of graphs and non-amphicheirality of alternating knots. **99g:57011**
Nagasaka, Hirofumi Vertex dimension of complete graphs on even vertices. (English summary) **99m:05052**
Nakamoto, Atsuhiro (*with* Ota, Katsuhiro) Diagonal transformations of graphs and Dehn twists of surfaces. (English summary) **99a:05036**
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57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [see also 57N12]

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57M50 Geometric structures on low-dimensional manifolds

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— (*with* Matsumoto, Saburo; Rubinstein, Joachim H.) Dehn surgery on the figure 8 knot: immersed surfaces. (English summary) **99j:57012**
Akiyoshi, Hirotaka (*with* Nakagawa, Yoshiyuki; Sakuma, Makoto) Shortest vertical geodesics of manifolds obtained by hyperbolic Dehn surgery on the Whitehead link. (English summary) **99k:57034**
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— (*with* Hildebrand, Martin V.; Weeks, Jeffrey R.) A census of cusped hyperbolic 3-manifolds. (English summary) **99c:57035**
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Fujii, Michihiko (*with* Kojima, Sadayoshi) Flexible boundaries in deformations of hyperbolic 3-manifolds. **99h:57026**
— (*with* Soma, Teruhiko) Totally geodesic boundaries are dense in the moduli space. **99b:57029**
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Comar, Timothy D. (*with* Taylor, Edward C.[2]) Geometrically convergent Kleinian groups and the lowest eigenvalue of the Laplacian. (English summary) **99f:58210**
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Errata:
"Rigidity and inflexibility in conformal analysis" Editor's remark. Correction: "Rigidity and inflexibility in conformal dynamics" [Doc. Math. **1998**, Extra Vol. II, 841–855 (electronic); MR 99h:58159a] by C. T. McMullen. **99h:58159b**

57M60 Group actions in low dimensions

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57Nxx Topological manifolds

57N05 Topology of E^2, 2-manifolds

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57N10 Topology of general 3-manifolds [see also 57Mxx]

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57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$

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57N17 Topology of topological vector spaces

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57N20 Topology of infinite-dimensional manifolds [see also 58Bxx]

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57N25 Shapes [see also 54C56, 55P55, 55Q07]

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57N35 Embeddings and immersions

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57N37 Isotopy and pseudo-isotopy

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57N50 $S^{n-1} \subset E^n$, Schoenflies problem

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57N55 Microbundles and block bundles [see also 55R60, 57Q50]

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57N60 Cellularity

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57N65 Algebraic topology of manifolds

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57N70 Cobordism and concordance

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57N75 General position and transversality

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57N80 Stratifications

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57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties of generalized manifolds

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57P10 Poincaré duality spaces

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57Qxx PL-topology

57Q05 General topology of complexes

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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

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57Q12 Wall finiteness obstruction for CW-complexes

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57Q15 Triangulating manifolds

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57Q20 Cobordism

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

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57Q35 Embeddings and immersions

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Tollefson, Jeffrey L. Normal surface Q-theory. (English summary) **99c:57047**

57Q37 Isotopy

Cavicchioli, Alberto (*with* Hegenbarth, Friedrich; Spaggiari, Fulvia) Topological properties of high-dimensional handles. (French summary) **99e:57036**
Hegenbarth, Friedrich *see* **Cavicchioli, Alberto; et al., 99e:57036**
Spaggiari, Fulvia *see* **Cavicchioli, Alberto; et al., 99e:57036**

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Blanlœil, Vincent Cobordism of nonspherical links. **99d:57015**
Carter, J. Scott (*with* Kauffman, Louis H.; Saito, Masahico) Diagrammatics, singularities, and their algebraic interpretations. (English summary) **99d:57016**
— (*with* Saito, Masahico) Surfaces in 3-space that do not lift to embeddings in 4-space. (English summary) **99h:57047**
Hillman, Jonathan A. (*with* Kearton, C.) Algebraic invariants of simple 4-knots. (English summary) **99b:57047**
— Optimal presentations for solvable 2-knot groups. (English summary) **99d:57017**
— (*with* Kearton, C.) Simple 4-knots. (English summary) **99k:57053**
Kamada, Seiichi Surfaces in 4-space: a view of normal forms and braidings. **99b:57048**
— Standard forms of 3-braid 2-knots and their Alexander polynomials. **99h:57048**
Kanenobu, Taizo (*with* Marumoto, Yoshihiko) Unknotting and fusion numbers of ribbon 2-knots. **99h:57049**
Kauffman, Louis H. *see* **Carter, J. Scott; et al., 99d:57016**
Kearton, C. (*with* Saeki, Osamu; Wilson, S. M. J.) Finiteness results for knots and singularities. (English summary) **99e:57037**
— *see also* **Hillman, Jonathan A., 99b:57047** *and* **99k:57053**
Li, Gui-Song Kirk's invariant may have mixed terms. **99j:57024**
Marumoto, Yoshihiko *see* **Kanenobu, Taizo, 99h:57049**
Ogasa, Eiji The intersection of three spheres in a sphere and a new application of the Sato-Levine invariant. (English summary) **99a:57022**
Roseman, Dennis Reidemeister-type moves for surfaces in four-dimensional space. (English summary) **99f:57029**
Rosicki, Witold Some simple invariants of the position of a surface in $\mathbf{R}^4$. (English summary) **99h:57050**
Saeki, Osamu *see* **Kearton, C.; et al., 99e:57037**
Saito, Masahico *see* **Carter, J. Scott; et al., 99d:57016** *and* **99h:57047**
Shima, Akiko On simply knotted tori in S^4. II. (English summary) **99m:57022**
Soteros, C. E. (*with* Sumners, De Witt; Whittington, Stuart G.) Linking of random p-spheres in $\mathbf{Z}^d$. (English summary) **99m:57023**
Sumners, De Witt *see* **Soteros, C. E.; et al., 99m:57023**
Teichner, Peter Symmetric surgery and boundary link maps. **99k:57054**
Whittington, Stuart G. *see* **Soteros, C. E.; et al., 99m:57023**
Wilson, S. M. J. *see* **Kearton, C.; et al., 99e:57037**
Yoshikawa, Katsuyuki The order of a meridian of a knotted Klein bottle. (English summary) **99b:57049**

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Massey, W. S. Higher order linking numbers. **99e:57016**
Mazurovskiĭ, V. F. Nonsingular configurations of at most five $2n$-dimensional subspaces of the projective space $\mathbf{RP}^{4n+1}$. (Russian. Russian summary) **99a:51002**

57Q50 Microbundles and block bundles [see also 55R60, 57N55]

Morlet, Claude Microfibrés et structures différentiables [MR 33 #729]. [Microbundles and differentiable structures] (*see* **99f:00040**)

Items with secondary classifications in 57Q50

Gramain, André L'invariance topologique des classes de Pontrjagin rationnelles (d'après S. P. Novikov et L. C. Siebenmann). [Topological invariance of rational Pontryagin classes (after S. P. Novikov and L. C. Siebenmann)] (*see* **99f:00041**)

57Q55 Approximations

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Repovš, Dušan D. (*with* Skopenkov, A. B.) A deleted product criterion for approximability of maps by embeddings. (English summary) **99g:57029**
Skopenkov, A. B. *see* **Repovš, Dušan D., 99g:57029**

57Q60 Cobordism and concordance

Dragotti, Sara (*with* Magro, Gaetano) A representation of homotopy theory by homotopy spheres. (English summary) **99a:57023**
Magro, Gaetano *see* **Dragotti, Sara, 99a:57023**

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Miyazaki, Katura Band-sums are ribbon concordant to the connected sum. (English summary) **99a:57008**

57Q91 Equivariant PL-topology

Aschbacher, Michael G. Finite groups acting on homology manifolds. **99h:57051**

Items with secondary classifications in 57Q91

Park, Dae Heui (*with* Suh, Dong Youp) Semialgebraic G CW complex structure of semialgebraic G spaces. (English summary) **99d:14061**
Suh, Dong Youp *see* **Park, Dae Heui, 99d:14061**

57Q99 None of the above, but in this section

Forman, Robin Morse theory for cell complexes. **99b:57050**

57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

Smale, Stephen A survey of some recent developments in differential topology [MR 26 #1896]. (*see* **99b:00010**)

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Borisenko, A. A. ★ Диференціальна геометрія і топологія. (Ukrainian. Ukrainian summary) [Differential geometry and topology] **99b:53001**
Jonckheere, Edmond A. ★ Algebraic and differential topology of robust stability. **99d:93001**
Outerelo Domínguez, Enrique (*with* Ruiz, Jesús M.) ★ Topología diferencial. (Spanish. Spanish summary) [Differential topology] **99h:57001**
Ruiz, Jesús M. *see* **Outerelo Domínguez, Enrique, 99h:57001**

57R10 Smoothing

Abe, Naoto[1] Parallel displacements in a category of certain topological spaces. **99b:57051**

57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

Akbulut, Selman (*with* Matveyev, Rostislav) A convex decomposition theorem for 4-manifolds. **99f:57030**
Bogomolov, Fedor A. (*with* Katzarkov, Ludmil) Symplectic four-manifolds and projective surfaces. (English summary) **99k:57055**
Čadek, Martin (*with* Vanžura, Jiří) Almost quaternionic structures on eight-manifolds. **99f:57031**
Cho, Yong Seung (*with* Yoon, Jin Yue) Exotic symplectic structures on $S^3 \times \mathbf{R}$. (English summary) **99e:57038**
Dessai, Anand Some remarks on almost and stable almost complex manifolds. (English summary) **99d:57018**
Donaldson, Simon Lefschetz fibrations in symplectic geometry. **99i:57044**
Geiges, Hansjörg (*with* Thomas, Charles B.) Contact structures on 7-manifolds. **99e:57039**
Gompf, Robert E. Kirby calculus for Stein surfaces. **99i:57045**
Kanda, Yutaka The classification of tight contact structures on the 3-torus. (English summary) **99c:57054**
— On the Thurston-Bennequin invariant of Legendrian knots and nonexactness of Bennequin's inequality. (English summary) **99g:57030**
Katzarkov, Ludmil *see* **Bogomolov, Fedor A., 99k:57055**
Laudenbach, François Trois constructions en topologie symplectique. (English and French summaries) [Three constructions in symplectic topology] **99f:57032**
Li, Tian-Jun Smoothly embedded spheres in symplectic 4-manifolds. **99c:57055**
Matveyev, Rostislav *see* **Akbulut, Selman, 99f:57030**
McDuff, Dusa From symplectic deformation to isotopy. (English summary) **99j:57025**
— Symplectic structures—a new approach to geometry. **99e:57040**
Sankaran, Parameswaran (*with* Zvengrowski, Peter) Stable parallelizability of partially oriented flag manifolds. II. (English summary) **99a:57024**
Stipsicz, András Geography of irreducible 4-manifolds. **99j:57026**
Symington, Margaret A new symplectic surgery: the 3-fold sum. (English summary) **99h:57052**
Szabó, Zoltán Simply-connected irreducible 4-manifolds with no symplectic structures. **99f:57033**
Thomas, Charles B. *see* **Geiges, Hansjörg, 99e:57039**
Vanžura, Jiří *see* **Čadek, Martin, 99f:57031**
Yoon, Jin Yue *see* **Cho, Yong Seung, 99e:57038**
Zvengrowski, Peter *see* **Sankaran, Parameswaran, 99a:57024**

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Abreu, Miguel Topology of symplectomorphism groups of $S^2 \times S^2$. **99k:57065**
Adachi, Jiro Generic knots in tight contact 3-manifolds. (*see* **97m:58001**)
— Contact structures on an open solid torus. **99h:53034**
Akbulut, Selman (*with* Matveyev, Rostislav) A note on contact structures. (English summary) **99b:57033**

Barrett, John W. Skein spaces and spin structures. (English summary) **99k:57006**
Benedetti, Riccardo (*with* Petronio, Carlo) ★ Branched standard spines of 3-manifolds. **99a:57012**
Bolle, Philippe A contact condition for p-codimensional submanifolds of a symplectic manifold ($2 \leq p \leq n$). **99a:58028**
Cieliebak, Kai A geometric obstruction to the contact type property. **99e:58068**
Ekholm, Tobias Immersions in the metastable range and spin structures on surfaces. **99k:57062**
Etnyre, John B. Symplectic convexity in low-dimensional topology. (English summary) **99j:57014**
Fatibene, Lorenzo (*with* Francaviglia, Mauro) Spin structures on manifolds. (English summary) **99m:53047**
Fernández, Marisa (*with* Ibáñez, Raúl; de León, Manuel) The canonical spectral sequences for Poisson manifolds. (English summary) **99k:58067**
Ferrand, Emmanuel (*with* Pushkar′, Petr E.) Non-cancellation of cusps on wave fronts. (English and French summaries) **99j:57030**
Francaviglia, Mauro *see* **Fatibene, Lorenzo, 99m:53047**
Gompf, Robert E. Symplectically aspherical manifolds with nontrivial π_2. (English summary) **99k:57068**
Guruprasad, Krishnamurthi (*with* Rajan, C. S.) Group cohomology and the symplectic structure on the moduli space of representations. **99e:58030**
Hadjar, Amine Sur les structures de contact du tore $\mathbf{T}^3$. (English and French summaries) [On contact structures on the torus $\mathbf{T}^3$] **99g:58050**
Ibáñez, Raúl *see* **Fernández, Marisa; et al., 99k:58067**
Jeffrey, Lisa C. Symplectic forms on moduli spaces of flat connections on 2-manifolds. (English summary) **99b:58043**
Kotschick, Dieter Signatures, monopoles and mapping class groups. (English summary) **99d:57023**
Lalonde, François Energy and capacities in symplectic topology. **99d:58064**
de León, Manuel *see* **Fernández, Marisa; et al., 99k:58067**
Lisca, Paolo Symplectic fillings and positive scalar curvature. (English summary) **99f:57038**
— (*with* Matić, Gordana) Stein 4-manifolds with boundary and contact structures. (English summary) **99f:57037**
Liu, Gang (*with* Tian, Gang) Floer homology and Arnold conjecture. **99m:58047**
Matić, Gordana *see* **Lisca, Paolo, 99f:57037**
Matveyev, Rostislav *see* **Akbulut, Selman, 99b:57033**
McCarthy, John D. (*with* Wolfson, Jon G.) Symplectic resolution of isolated algebraic singularities. **99f:57041**
McDuff, Dusa Recent developments in symplectic topology. **99i:58061**
— Fibrations in symplectic topology. (English summary) **99j:57034**
— Symplectic topology and capacities. **99k:57069**
Mikrut, Piotr Bordism of spin 4-manifolds with local action of tori. (English summary) **99g:57024**
Petronio, Carlo *see* **Benedetti, Riccardo, 99a:57012**
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Rajan, C. S. *see* **Guruprasad, Krishnamurthi, 99e:58030**
Tian, Gang *see* **Liu, Gang, 99m:58047**
Wolfson, Jon G. *see* **McCarthy, John D., 99f:57041**

57R19 Algebraic topology on manifolds

Choi, Younggi The mod 2 homology of $\mathrm{Sp}(n)$ instantons and the classifying space of the gauge group. (English summary) **99b:57052**
Cruz, Ricardo N. Reflections on closed manifolds. (English summary) **99b:57053**
Hayat-Legrand, Claude (*with* Zieschang, Heiner) On the cup product on Seifert manifolds. **99h:57053**
Schmitt, Alexander On the classification of certain 6-manifolds and applications to algebraic geometry. **99c:57056**
Zieschang, Heiner *see* **Hayat-Legrand, Claude, 99h:57053**

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Botvinnik, B. I. (*with* Gilkey, Peter B.) The eta invariant and the Gromov-Lawson conjecture for elementary abelian groups of odd order. (English summary) **99f:58194**
(van den Dries, Lou) *see* **Khovanskiĭ, A. G., 99f:14070**
Gilkey, Peter B. *see* **Botvinnik, B. I., 99f:58194**
(Il′yashenko, Yu. S.) *see* **Khovanskiĭ, A. G., 99f:14070**
Khovanskiĭ, A. G. ★ Малочлены. (Russian. Russian summary) [Fewnomials] **99f:14070**
Léandre, Rémi Singular integral homology of the stochastic loop space. **99c:58173**
Morimoto, Masaharu A geometric quadratic form of 3-dimensional normal maps. (English summary) **99a:57018**
Smirnov, Mikhail M. Cocycles on the gauge group and the algebra of Chern-Simons classes. (English summary) **99a:58010**

57R20 Characteristic classes and numbers

Bukhshtaber, V. M. (*with* Fel′dman, K. È.) An addition formula for the first half-integer Pontryagin class in complex cobordisms. (Russian) **99c:57057**
Fel′dman, K. È. *see* **Bukhshtaber, V. M., 99c:57057**
Gramain, André L'invariance topologique des classes de Pontrjagin rationnelles (d'après S. P. Novikov et L. C. Siebenmann). [Topological invariance of rational Pontryagin classes (after S. P. Novikov and L. C. Siebenmann)] (*see* **99f:00041**)
Hara, Yasuhiro Special generic maps and L^2-Betti numbers. **99c:57058**
Kawazumi, Nariya A generalization of the Morita-Mumford classes to extended mapping class groups for surfaces. (English summary) **99b:57054**
Kuribayashi, Katsuhiko (*with* Yamaguchi, Toshihiro) The vanishing problem of the string class with degree 3. (English summary) **99h:57054**
Thom, Réné Sous-variétés et classes d'homologie des variétés différentiables. [Submanifolds and homology classes of differentiable manifolds] (*see* **99f:00034**)
Yamaguchi, Toshihiro *see* **Kuribayashi, Katsuhiko, 99h:57054**

Items with secondary classifications in 57R20

Aizenberg, Lev (*with* Fedosov, Boris V.; Tarkhanov, Nikolai N.) Residues of closed differential forms. (English summary) **99k:58005**
Ajayi, Deborah O. (*with* Ilori, Samuel A.) Non-embeddings of the real flag manifolds $\mathrm{RF}(1, 1, n-2)$. (English summary) **99k:57061**
Bauer, Michel (*with* Thuillier, Frank) Representatives of the Thom class of a vector bundle. (English summary) **99m:58208**
Botvinnik, B. I. (*with* Gilkey, Peter B.) The eta invariant and the Gromov-Lawson conjecture for elementary abelian groups of odd order. (English summary) **99f:58194**
Čadek, Martin (*with* Vanžura, Jiří) Almost quaternionic structures on eight-manifolds. **99f:57031**
Duan, Yishi (*with* Fu, Libin) The general decomposition theory of SU(2) gauge potential, topological structure and bifurcation of SU(2) Chern density. (English summary) **99g:53030**
Edidin, Dan (*with* Graham, William A.) Localization in equivariant intersection theory and the Bott residue formula. (English summary) **99g:14005**
Fedosov, Boris V. *see* **Aizenberg, Lev; et al., 99k:58005**
Fu, Libin *see* **Duan, Yishi, 99g:53030**
Gilkey, Peter B. *see* **Botvinnik, B. I., 99f:58194**
Graham, William A. *see* **Edidin, Dan, 99g:14005**
Hirzebruch, Friedrich A Riemann-Roch theorem for differentiable manifolds. (*see* **99f:00037**)
Ilori, Samuel A. *see* **Ajayi, Deborah O., 99k:57061**
Kazaryan, M. È. The Chern-Euler number of circle bundle via singularity theory. (English summary) **99e:57048**
— The Chern-Euler number of circle bundle via singularity theory. (English summary) **99k:57064**
Kervaire, Michel A. L'homotopie stable des groupes classiques d'après R. Bott. Applications. [Stable homotopy of the classical groups, after R. Bott. Applications] (*see* **99f:00037**)
Kim, Hong-Jong Elliptic differential operators and the theory of characteristic classes. (Korean. Korean summary) **99f:58184**
Kotschick, Dieter Signatures, monopoles and mapping class groups. (English summary) **99d:57023**
Kreck, Matthias (*with* Stolz, Stephan) A correction on: "Some nondiffeomorphic homeomorphic homogeneous 7-manifolds with positive sectional curvature" [J. Differential Geom. **33** (1991), no. 2, 465–486; MR 92d:53043]. **99h:53069**
Lapa de Souza, Maria Luiza L'interprétation de la classe de Maslov dans la K-théorie hermitienne et dans la théorie relative de Chern-Weil. (English summary) [Interpretation of the Maslov class in Hermitian K-theory and in relative Chern-Weil theory] **99g:19004**
Lenart, Cristian The combinatorics of Steenrod operations on the cohomology of Grassmannians. (English summary) **99e:55032**
Little, Robert D. Regular cyclic actions on complex projective space with codimension-two fixed points. (English summary) **99j:57038**
Mikrut, Piotr Bordism of oriented 4-manifolds with T-structure. (English summary) **99c:57051**
Morifuji, Takayuki A note on the reducibility of automorphisms of the Klein curve and the η-invariant of mapping tori. (English summary) **99g:14039**
Morita, Shigeyuki Casson invariant, signature defect of framed manifolds and the secondary characteristic classes of surface bundles. **99h:57029**
Niglio, Louis Classes isotropes et classes de Maslov. (English and French summaries) [Isotropy classes and Maslov classes] **99d:58066**
Panov, T. E. Classification up to cobordism of manifolds that carry a simple action. (Russian. Russian summary) **99g:57037**
Serre, Jean-Pierre Travaux d'Hirzebruch sur la topologie des variétés. [Works of Hirzebruch on the topology of manifolds] (*see* **99f:00034**)
Stipsicz, András Geography of irreducible 4-manifolds. **99j:57026**
Stolz, Stephan *see* **Kreck, Matthias, 99h:53069**
Suwa, Tatsuo Chern classes of local complete intersections with isolated singularities. **99j:32039**
Tarkhanov, Nikolai N. *see* **Aizenberg, Lev; et al., 99k:58005**
Tevdoradze, Z. A. Arnold-Maslov's class and conjecture of Fomenko. (Russian and Georgian summaries) **99m:58100**
Thom, Réné Sur les variétés-bords. [On bounding manifolds] (*see* **99f:00034**)
Thuillier, Frank *see* **Bauer, Michel, 99m:58208**
Vanžura, Jiří *see* **Čadek, Martin, 99f:57031**
Yang, Guo-Hong The transversal submanifolds and Gauss-Bonnet-Chern theorem. (English summary) **99k:53074**

57R22 Topology of vector bundles and fiber bundles [see also 55Rxx]

Čadek, Martin (*with* Vanžura, Jiří) Various structures in 8-dimensional vector bundles over 8-manifolds. (English summary) **99m:57024**
Gottlieb, Daniel Henry Skew symmetric bundle maps. (English summary) **99m:57025**
Lang, Serge L'équivalence homotopique tangentielle. [Tangential homotopy equivalence] (*see* **99f:00038**)
Vanžura, Jiří *see* **Čadek, Martin, 99m:57024**

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Abe, Naoto[1] Parallel displacements in a category of certain topological spaces. **99b:57051**
Čadek, Martin (*with* Vanžura, Jiří) On 4-fields and 4-distributions in 8-dimensional vector bundles over 8-complexes. **99b:55030**
Endo, Hisaaki A construction of surface bundles over surfaces with non-zero signature. **99m:55017**
Koschorke, Ulrich Complex and real vector bundle monomorphisms. (English summary) **99j:55020**
Pătrăşcoiu, Constantin Field of cones on (k, r)-covelocities vector bundle on a manifold. (English summary) **99k:58009**

Vanžura, Jiří *see* **Čadek, Martin**, **99b:55030**

57R25 Vector fields, frame fields

Becker, James C. (*with* Gottlieb, Daniel Henry) Spaces of local vector fields. (English summary) **99i:57046**
Cima, Anna (*with* Mañosas, Francesc; Villadelprat, Jordi) A Poincaré-Hopf theorem for noncompact manifolds. (English summary) **99b:57055**
Gottlieb, Daniel Henry *see* **Becker, James C.**, **99i:57046**
Junod, Bernard (*with* Suter, Ueli) On the vector field problem for product manifolds. (English summary) **99k:57056**
Llibre, Jaume (*with* Villadelprat, Jordi) A Poincaré index formula for surfaces with boundary. (English summary) **99a:57025**
Maehara, Hiroshi Vector fields and quadratic surfaces. (English summary) **99k:57057**
Mañosas, Francesc *see* **Cima, Anna; et al.**, **99b:57055**
Morin, Bernard Champs de vecteurs sur les sphères d'après J. F. Adams. [Vector fields on spheres, after J. F. Adams] (*see* **99f:00039**)
Prishlyak, A. O. Vector fields with a given set of singular points. (Russian. English and Ukrainian summaries) **99m:57026**
Suter, Ueli *see* **Junod, Bernard**, **99k:57056**
Villadelprat, Jordi *see* **Llibre, Jaume**, **99a:57025** *and* **Cima, Anna; et al.**, **99b:57055**
Zvengrowski, Peter Recent progress in the topology of projective Stiefel manifolds. (English summary) **99e:57041**

Items with secondary classifications in 57R25

Čadek, Martin (*with* Vanžura, Jiří) Various structures in 8-dimensional vector bundles over 8-manifolds. (English summary) **99m:57024**
— (*with* Vanžura, Jiří) On 4-fields and 4-distributions in 8-dimensional vector bundles over 8-complexes. **99b:55030**
Duan, Yishi (*with* Fu, Libin) The general decomposition theory of SU(2) gauge potential, topological structure and bifurcation of SU(2) Chern density. (English summary) **99g:53030**
Ekholm, Tobias Immersions in the metastable range and spin structures on surfaces. **99k:57062**
Fu, Libin *see* **Duan, Yishi**, **99g:53030**
Han, Dong-Soong (*with* Yim, Jin-Whan) Unit vector fields on spheres, which are harmonic maps. **99c:58044**
Sankaran, Parameswaran (*with* Zvengrowski, Peter) Stable parallelizability of partially oriented flag manifolds. II. (English summary) **99a:57024**
Vanžura, Jiří *see* **Čadek, Martin**, **99b:55030** *and* **99m:57024**
Xia, Da Feng (*with* Xu, Sen Lin) The Nielsen number of a vector field. (Chinese. English and Chinese summaries) **99m:55002**
Xu, Sen Lin *see* **Xia, Da Feng**, **99m:55002**
Yim, Jin-Whan *see* **Han, Dong-Soong**, **99c:58044**
Zvengrowski, Peter *see* **Sankaran, Parameswaran**, **99a:57024**

57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [see also 49Qxx, 58F40, 93B05]

Items with secondary classifications in 57R27

Kaya, C. Yalçin (*with* Noakes, J. Lyle) A global control algorithm in the plane. (English summary) **99f:93059**
Noakes, J. Lyle *see* **Kaya, C. Yalçin**, **99f:93059**

57R30 Foliations; geometric theory

Cantwell, John C. (*with* Conlon, Lawrence) Generic leaves. (English summary) **99d:57019**
Cerf, Jean Combinatoire des simplexes sans singularités. I. Le cas différentiable. (English and French summaries) [Combinatorics of simplices without singularities. I. The differentiable case] **99k:57058**
Conlon, Lawrence *see* **Cantwell, John C.**, **99d:57019**
Currás Bosch, Carlos (*with* Molino, Pierre) Holonomie, suspensions et classifications pour les feuilletages lagrangiens. (English and French summaries) [Holonomy, suspension, and classification of Lagrangian foliations] **99i:57047**
Fenley, Sérgio R. Limit sets of foliations. **99c:57059**
Fukui, Kazuhiko Commutators of foliation preserving homeomorphisms for certain compact foliations. **99b:57056**
— (*with* Imanishi, Hideki) On commutators of foliation preserving homeomorphisms. (English summary) **99i:57048**
Haefliger, André Travaux de Novikov sur les feuilletages. [Works of Novikov on foliations] (*see* **99f:00042**)
Imanishi, Hideki *see* **Fukui, Kazuhiko**, **99i:57048**
Le Roux, Frédéric Classes de conjugaison des flots du plan topologiquement équivalents au flot de Reeb. (English and French summaries) [Conjugacy classes of the planar flows which are topologically equivalent to the Reeb flow] **99j:57027**
Martin, Reiner Non-uniquely ergodic foliations of thin type. (English summary) **99a:57026**
Meigniez, Gaël Feuilletages de Lie résolubles. (English and French summaries) [Solvable Lie foliations] **99e:57042**
Mel'nikova, I. A. Properties of the Morse form that determines a compact foliation on M^2_g. (Russian) **99d:57020**
Molino, Pierre *see* **Currás Bosch, Carlos**, **99i:57047**
Petronio, Carlo ★ A theorem of Eliashberg and Thurston on foliations and contact structures. **99k:57059**
Piątkowski, Andrzej Topological foliation defined by a family of mappings. (English and Polish summaries) **99e:57043**
Rigal, Marie-Hélène Rigidité des feuilletages transversalement conformément parallélisables. (English summary) [Rigidity of transversally conformally parallelizable foliations] **99f:57034**
Rybicki, Tomasz A note on generalized flag structures. (English summary) **99b:57057**
Wolak, Robert A. Growth of leaves in transversely affine foliations. (English summary) **99j:57028**

Items with secondary classifications in 57R30

Aitchison, I. R. (*with* Rubinstein, Joachim H.) Polyhedral metrics and 3-manifolds which are virtual bundles. **99h:57024**
Andersen, Jørgen Ellegaard New polarizations on the moduli spaces and the Thurston compactification of Teichmüller space. (English summary) **99e:58029**
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57R60 Homotopy spheres, Poincaré conjecture

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57R65 Surgery and handlebodies

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57R70 Critical points and critical submanifolds

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57R75 O- and SO-cobordism

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57R77 Complex cobordism (U- and SU-cobordism) [see also 55N22]

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57R80 h- and s-cobordism

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— Floer homology and invariants of homology cobordism. (English summary) **99h:57064**

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57R85 Equivariant cobordism

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57R90 Other types of cobordism [See 55N22]

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57R91 Equivariant algebraic topology of manifolds

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57R95 Realizing cycles by submanifolds

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57R99 None of the above, but in this section

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57Sxx Topological transformation groups [see also 20F34, 22–XX, 54H15, 58D05]

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57S05 Topological properties of groups of homeomorphisms or diffeomorphisms

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Rybicki, Tomasz On the group of Poisson diffeomorphisms of the torus. (English and Italian summaries) **99i:58021**

57S10 Compact groups of homeomorphisms

Malešič, Jože The Hilbert-Smith conjecture for Hölder actions. (Russian) **99d:57026**
Repovš, Dušan D. (*with* Skopenkov, A. B.) On homogeneous compacta in Euclidean space and the classical Hilbert-Smith conjecture. (English summary) **99m:57032**
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Lee, Joo Sung Totally disconnected groups, p-adic groups and the Hilbert-Smith conjecture. (English summary) **99e:54032**
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57S15 Compact Lie groups of differentiable transformations

Braconnier, Jean Sur les groupes de Lie compacts opérant dans une variété compacte (d'après G. D. Mostow et E. E. Floyd) [MR **21** #3512]. [On compact Lie groups acting in a compact manifold (after G. D. Mostow and E. E. Floyd)] (*see* **99f:00036**)
Chai, Ching-Li (*with* Neeman, Amnon) The naturality in Kirwan's decomposition. (English summary) **99k:57077**
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Koszul, Jean-Louis Théorèmes de points fixes pour les groupes élémentaires (d'après A. Borel). [Fixed-point theorems for elementary groups (after A. Borel)] (*see* **99f:00040**)
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Saralegi Aranguren, Martin Cohomologie d'intersection des actions toriques simples. [Intersection cohomology of simple torus actions] **99d:57027**
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Wang, Yan Ying (*with* Wu, Zhen De; Ding, Yan Hong) Commuting involutions with fixed point set of constant codimension. (Chinese. English and Chinese summaries)
Wu, Zhen De *see* **Wang, Yan Ying; et al.**

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Brown, Richard J. Anosov mapping class actions on the SU(2)-representation variety of a punctured torus. (English summary) **99j:58150**
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Karshon, Yael Moment maps and non-compact cobordisms. (English summary) **99h:58064**
Lerman, Eugene (*with* Meinrenken, Eckhard; Tolman, Sue; Woodward, Chris T.) Nonabelian convexity by symplectic cuts. (English summary) **99a:58069**
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57S17 Finite transformation groups

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Laitinen, Erkki (*with* Morimoto, Masaharu) Finite groups with smooth one fixed point actions on spheres. (English summary) **99k:57078**
— (*with* Pawałowski, Krzysztof) Smith equivalence of representations for finite perfect groups. (English summary) **99b:57070**
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— Model aspherical manifolds with no periodic maps. (English summary) **99g:57036**
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Adem, Alejandro (*with* Benson, David John) Elementary abelian groups acting on products of spheres. **99k:57033**
Aschbacher, Michael G. Finite groups acting on homology manifolds. **99h:57051**
Balanov, Z. I. Equivariant Hopf theorem. **99f:55020**
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Weber, Christian² Fixed points and reducibles in equivariant gauge theory. (English summary) **99i:57054**

57S20 Noncompact Lie groups of transformations

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Adem, Alejandro (*with* Benson, David John) Elementary abelian groups acting on products of spheres. **99k:57033**
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Lawson, Jimmie D. Semigroups in Möbius and Lorentzian geometry. (English summary) **99e:22006**
Rumberger, Matthias Finitely differentiable invariants. **99j:58023**
Zeghib, Abdelghani On affine actions of Lie groups. **99c:53077**

57S25 Groups acting on specific manifolds

Dal'bo, Françoise Géométrie d'une famille de groupes agissant sur le produit de deux variétés d'Hadamard. [Geometry of a family of groups acting on the product of two Hadamard manifolds] **99c:57067**
Dönmez, Doğan On the validity of the Borel-Hirzebruch formula for topological actions. (English summary) **99k:57080**
Fabel, Paul Self-homeomorphisms of the 2-sphere which fix pointwise a nonseparating continuum. (English summary) **99k:57081**
Huck, Wolfgang (*with* Puppe, Volker) Circle actions on 4-manifolds. II. (English summary) **99j:57040**
Puppe, Volker *see* **Huck, Wolfgang, 99j:57040**
Shchetinin, A. N. Quotient spaces over tori, and transitive actions of Lie groups. II. (Russian. Russian summary) **99b:57073**
Singer, S. F. (*with* Talvacchia, J.; Watson, Noel) Nontoric Hamiltonian circle actions on four-dimensional symplectic orbifolds. **99f:57043**
Talvacchia, J. *see* **Singer, S. F.; et al., 99f:57043**
Thomas, Charles B. Almost linear actions by $SL_2(p)$ on S^{2n-1}. (English summary) **99a:57032**
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Bârză, Ilie (*with* Ghişa, D.) Lie groups acting on the Möbius strip. (English summary) **99f:30068**
Boyer, Charles P. (*with* Galicki, Krzysztof; Mann, Benjamin M.; Rees, Elmer G.) Einstein manifolds of positive scalar curvature with arbitrary second Betti number. (English summary) **99c:53041**
— (*with* Galicki, Krzysztof; Mann, Benjamin M.; Rees, Elmer G.) Compact 3-Sasakian 7-manifolds with arbitrary second Betti number. **99b:53066**
— (*with* Galicki, Krzysztof; Mann, Benjamin M.) A note on smooth toral reductions of spheres. (English summary) **99c:53042**
Galicki, Krzysztof *see* **Boyer, Charles P.; et al., 99b:53066; 99c:53041** *and* **99c:53042**
Ghişa, D. *see* **Bârză, Ilie, 99f:30068**
Kanai, Masahiko Rigidity of group actions. (*see* **99b:53003**)
Koszul, Jean-Louis Théorèmes de points fixes pour les groupes élémentaires (d'après A. Borel). [Fixed-point theorems for elementary groups (after A. Borel)] (*see* **99f:00040**)
Kwasik, Sławomir (*with* Schultz, Reinhard E.) On h-cobordisms of spherical space forms. (English summary) **99h:57063**
Laitinen, Erkki (*with* Morimoto, Masaharu) Finite groups with smooth one fixed point actions on spheres. (English summary) **99k:57078**
— (*with* Pawałowski, Krzysztof) Smith equivalence of representations for finite perfect groups. (English summary) **99b:57070**
Lê Hông Vân Compact symplectic manifolds of low cohomogeneity. (English summary) **99k:58072**
Little, Robert D. Regular cyclic actions on complex projective space with codimension-two fixed points. (English summary) **99j:57038**
Malkin, Anton Z. *see* **Alekseev, Anton Yu.; et al., 99k:58062**
Mann, Benjamin M. *see* **Boyer, Charles P.; et al., 99b:53066; 99c:53041** *and* **99c:53042**
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Morifuji, Takayuki A note on the reducibility of automorphisms of the Klein curve and the η-invariant of mapping tori. (English summary) **99g:14039**
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Nagasaki, Ikumitsu Unstable jO-groups and stably linear homotopy representations for p-groups. **99m:57033**
Nakai, Isao Periodic and critical orbits of algebraic functions: Teichmüller space of an algebraic function. **99b:58198**
Panov, T. E. Classification up to cobordism of manifolds that carry a simple action. (Russian. Russian summary) **99g:57037**
Pawałowski, Krzysztof *see* **Laitinen, Erkki, 99b:57070**
Rees, Elmer G. *see* **Boyer, Charles P.; et al., 99b:53066** *and* **99c:53041**
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Théret, David Rotation numbers of Hamiltonian isotopies in complex projective spaces. **99e:58078**
Young, Carmen M. Normal invariants of lens spaces. (English summary) **99k:57071**

57S30 Discontinuous groups of transformations

Apanasov, Boris (*with* Xie, Xiangdong) Geometrically finite complex hyperbolic manifolds. (English summary) **99e:57051**
Corson, Jon M. (*with* Spieler, Barry S.) The qsf property and group actions via complexes of spaces. **99f:57044**
Drumm, Todd A. (*with* Goldman, William M.) The geometry of crooked planes. (English summary) **99m:57034**
Goldman, William M. *see* **Drumm, Todd A., 99m:57034**
Kang, Eun Sook (*with* Lee, Kyung Bai) Injective operations of homogeneous spaces. **99i:57057**
Lee, Kyung Bai *see* **Kang, Eun Sook, 99i:57057**
Ohshika, Ken'ichi Théorèmes de convergence pour les groupes kleiniens décomposables. [Convergence theorems for decomposable Kleinian groups] (*see* **99e:30001**)
Park, Kyeongsu Invariant open sets under cocompact affine actions. (English summary) **99m:57035**
Spieler, Barry S. *see* **Corson, Jon M., 99f:57044**
Stark, C. W. Minimal dynamics on Menger manifolds. (English summary) **99j:57041**
Winkelmann, Jörg Holomorphic self-maps of parallelizable manifolds. (English summary) **99c:57068**
Xie, Xiangdong *see* **Apanasov, Boris, 99e:57051**

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Andrzejewski, Wojciech *see* **Tralle, A. E., 99j:53031**
Babillot, Martine (*with* Peigné, Marc) Closed geodesics in homology classes on hyperbolic manifolds with cusps. (English and French summaries) **99a:58121**
Balke, Ludwig (*with* Kaess, Alexandra; Neuschäfer, Uta; Rothenhäusler, Frank; Scheidt, Stefan) Polyhedral fundamental domains for discrete subgroups of PSL(2, **R**). (English summary) **99j:22017**
Bârză, Ilie (*with* Ghişa, D.) Lie groups acting on the Möbius strip. (English summary) **99f:30068**
Bowditch, Brian H. A topological characterisation of hyperbolic groups. (English summary) **99c:20048**
Cao, Chun (*with* Gehring, F. W.; Martin, G. J.) Lattice constants and a lemma of Zagier. (English summary) **99a:30040**
Dal'bo, Françoise Géométrie d'une famille de groupes agissant sur le produit de deux variétés d'Hadamard. [Geometry of a family of groups acting on the product of two Hadamard manifolds] **99c:57067**
Dekimpe, Karel (*with* Igodt, Paul) Polycyclic-by-finite groups admit a bounded-degree polynomial structure. (English summary) **99c:20071**
Fujiwara, Koji The second bounded cohomology of a group acting on a Gromov-hyperbolic space. **99c:20072**
Gehring, F. W. *see* **Cao, Chun; et al., 99a:30040**
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Hamilton, Emily Geometrical finiteness for hyperbolic orbifolds. **99h:57027**
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Jaworowski, Jan The index of involutions in lens spaces. (English and French summaries) **99m:55003**
Jones, Kerry N. (*with* Reid, Alan W.) Minimal index torsion-free subgroups of Kleinian groups. **99a:57010**

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Klotzek, Benno Diskontinuierliche Bewegungsgruppen verschiedenen Grades in verschiedenen Geometrien. (English summary) [Discontinuous motion groups of varying degree in different geometries] **99m:51023**
Kobayashi, Toshiyuki Deformation of compact Clifford-Klein forms of indefinite-Riemannian homogeneous manifolds. **99b:53074**
Kooman, R. J. Asymptotic behaviour of solutions of linear recurrences and sequences of Möbius-transformations. (English summary) **99k:39020**
Labourie, François Large groups actions on manifolds. (English summary) **99k:53069**
Malfait, Wim (*with* Szczepański, Andrzej) Almost-Bieberbach groups with (in)finite outer automorphism group. (English summary) **99m:20123**
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McMullen, Curtis T. Kleinian groups and John domains. (English summary) **99c:20070**
Molnár, Emil (*with* Prok, István; Szirmai, J.) Classification of solid transitive simplex tilings in simply connected 3-spaces. II. Metric realizations of the maximal simplex tilings. **99j:52026**
Mukherjee, Amiya (*with* Naolekar, Aniruddha C.) An axiomatic approach to equivariant cohomology theories. (English summary) **99f:55013**
Naolekar, Aniruddha C. *see* **Mukherjee, Amiya, 99f:55013**
Neuschäfer, Uta *see* **Balke, Ludwig; et al., 99j:22017**
Nimershiem, Barbara E. All flat three-manifolds appear as cusps of hyperbolic four-manifolds. (English summary) **99i:57029**
Ohshika, Ken'ichi Divergent sequences of Kleinian groups. (English summary) **99k:57035**
— (*with* Potyagaĭlo, L. D.) Self-embeddings of Kleinian groups. (English and French summaries) **99d:57009**
— Geometrically finite Kleinian groups and parabolic elements. (English summary) **99a:30042**
Peigné, Marc *see* **Babillot, Martine, 99a:58121**
Pollicott, Mark (*with* Sharp, Richard) Poincaré series and zeta functions for surface group actions on R-trees. **99g:58104**
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Stark, C. W. Approximate finiteness properties of infinite groups. (English summary) **99k:57050**
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Tralle, A. E. (*with* Andrzejewski, Wojciech) On solvmanifolds and a conjecture of Benson and Gordon from the Hamiltonian viewpoint. (English summary) **99j:53031**

57S99 None of the above, but in this section

Malešič, Jože (*with* Repovš, Dušan D.) On characterization of Lipschitz manifolds. (English summary) **99j:57042**
Raußen, Martin Cyclic group actions on manifolds from deformations of rational homotopy types. **99j:57043**
Repovš, Dušan D. *see* **Malešič, Jože, 99j:57042**

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Alekseev, Anton Yu. On Poisson actions of compact Lie groups on symplectic manifolds. (English summary) **99b:58086**
Fagundes, Pedro Luiz Equivariant Nielsen coincidence theory. (English and Portuguese summaries) **99e:55001**
Fels, Mark (*with* Olver, Peter J.) On relative invariants. **99k:58029**
Lee, Hyang-Sook (*with* Shin, Dong-Sun) Some properties on spaces with noncompact group action. (English summary)
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Pérez, Juan Antonio The topology of symmetry. (Spanish. Spanish summary) **99i:55008**
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57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

Félix, Yves (*with* Murillo-Mas, Aniceto) Gorenstein graded algebras and the evaluation map. (English summary) **99c:57069**
Murillo-Mas, Aniceto *see* **Félix, Yves, 99c:57069**

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Duflot, Jeanne Lots of Hopf algebras. (English summary) **99e:16049**
Hopkins, Michael J. (*with* Ravenel, Douglas C.; Wilson, W. Stephen) Morava Hopf algebras and spaces $K(n)$ equivalent to finite Postnikov systems. (English summary) **99e:55005**
Kordzaya, K. Multiplicative elements in Morava K-theory of BZ/p. **99i:55003**
Lin, James P. Mod 3 truncated polynomial algebras over the Steenrod algebra. (English summary) **99e:55033**
Ravenel, Douglas C. *see* **Hopkins, Michael J.; et al., 99e:55005**
Sadofsky, Hal (*with* Wilson, W. Stephen) Commutative Morava homology Hopf algebras. (English summary) **99i:55004**
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Yanigasawa, Hibiki Quantization of Poisson algebras that are chord diagrams on curved surfaces. (Japanese) (*see* **99a:00029**)

57T10 Homology and cohomology of Lie groups

Arone, Greg (*with* Kankaanrinta, Marja) The homology of certain subgroups of the symmetric group with coefficients in $\mathscr{L}ie(n)$. (English summary) **99c:57070**
Cathelineau, Jean-Louis Homology of tangent groups considered as discrete groups and scissors congruence. (English summary) **99h:57066**
Douady, Adrien Cohomologie des groupes compacts totalement discontinus (d'après Tate). [Cohomology of totally discontinuous compact groups (after Tate)] (*see* **99f:00037**)
Hamanaka, Hiroaki Adjoint actions on homology mod 2 of exceptional Lie groups. **99a:57033**
— (*with* Hara, Shin-Ichiro; Kono, Akira[1]) Adjoint action of Lie groups on the loop spaces and cohomology of exceptional Lie groups. **99a:57034**
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Kankaanrinta, Marja *see* **Arone, Greg, 99c:57070**
Kono, Akira[1] *see* **Hamanaka, Hiroaki; et al., 99a:57034**
Lyons, David W. Integral Weyl invariants and the Borel homomorphism for Spin(n). (English summary) **99c:57071**

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Bökstedt, Marcel (*with* Brun, Morten; Dupont, Johan L.) Homology of O(n) and $O^1(1,n)$ made discrete: an application of edgewise subdivision. (English summary) **99c:20061**
Broto, Carlos (*with* Viruel, Antonio) Homotopy uniqueness of $BPU(3)$. **99a:55013**
Brun, Morten *see* **Bökstedt, Marcel; et al., 99c:20061**
Dupont, Johan L. *see* **Bökstedt, Marcel; et al., 99c:20061**
Dwyer, William G. (*with* Wilkerson, C. W.) The elementary geometric structure of compact Lie groups. (English summary) **99g:22007**
Hunton, John Robert (*with* Mimura, Mamoru; Nishimoto, Tetsu; Schuster, Björn) Higher v_n torsion in Lie groups. (English summary) **99i:55005**
Mimura, Mamoru *see* **Hunton, John Robert; et al., 99i:55005**
Nishimoto, Tetsu *see* **Hunton, John Robert; et al., 99i:55005**
Rao, Vidhyānāth K. Towards the algebra structure of the Morava K-theory of the orthogonal groups. **99d:55002**
Schuster, Björn *see* **Hunton, John Robert; et al., 99i:55005**
Shchetinin, A. N. Quotient spaces over tori, and transitive actions of Lie groups. II. (Russian. Russian summary) **99b:57073**
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Viruel, Antonio Homotopy uniqueness of BG_2. (English summary) **99e:55029**
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57T15 Homology and cohomology of homogeneous spaces of Lie groups

Borel, Armand Cohomologie des espaces homogènes. [Cohomology of homogeneous spaces] (*see* **99f:00033**)
Fino, Anna Systems of roots and topology of complex flag manifolds. (English summary) **99j:57044**
Koszul, Jean-Louis Cohomologie des espaces fibrés différentiables et connexions. [Cohomology of differentiable fiber spaces and connections] (*see* **99f:00033**)
Watanabe, Takashi[1] Cohomology of a homogeneous space $E_6/T^1 \cdot SU(6)$. **99b:57074**

57T20 Homotopy groups of topological groups and homogeneous spaces

Boekholt, Sven Compact Lie groups with isomorphic homotopy groups. (English summary) **99a:57035**
Wiggerman, Mark The fundamental group of a real flag manifold. (English summary) **99e:57052**

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Arlettaz, Dominique Die Bernoulli-Zahlen: eine Beziehung zwischen Topologie und Gruppentheorie. (German summary) [The Bernoulli numbers: a relation between topology and group theory] **99e:55012**
Chaves, Lucas M. *see* **Rigas, Alcibíades, 99m:55016**
Kervaire, Michel A. L'homotopie stable des groupes classiques d'après R. Bott. Applications. [Stable homotopy of the classical groups, after R. Bott. Applications] (*see* **99f:00037**)
Rigas, Alcibíades (*with* Chaves, Lucas M.) Hopf maps and triality. **99m:55016**
Viruel, Antonio Homotopy uniqueness of BG_2. (English summary) **99e:55029**

57T25 Homology and cohomology of H-spaces

Items with secondary classifications in 57T25

Lin, James P. Mod 3 truncated polynomial algebras over the Steenrod algebra. (English summary) **99e:55033**
Tokunaga, Ken-ichi A topological characterization of SU. **99i:55024**

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

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Kadeishvili, T. (*with* Saneblidze, S.) Iterating the bar construction. (English summary) **99f:55014**
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57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

Items with secondary classifications in 57T35

Kuribayashi, Katsuhiko (*with* Yamaguchi, Toshihiro) The vanishing problem of the string class with degree 3. (English summary) **99h:57054**

Yamaguchi, Toshihiro *see* **Kuribayashi, Katsuhiko**, **99h:57054**